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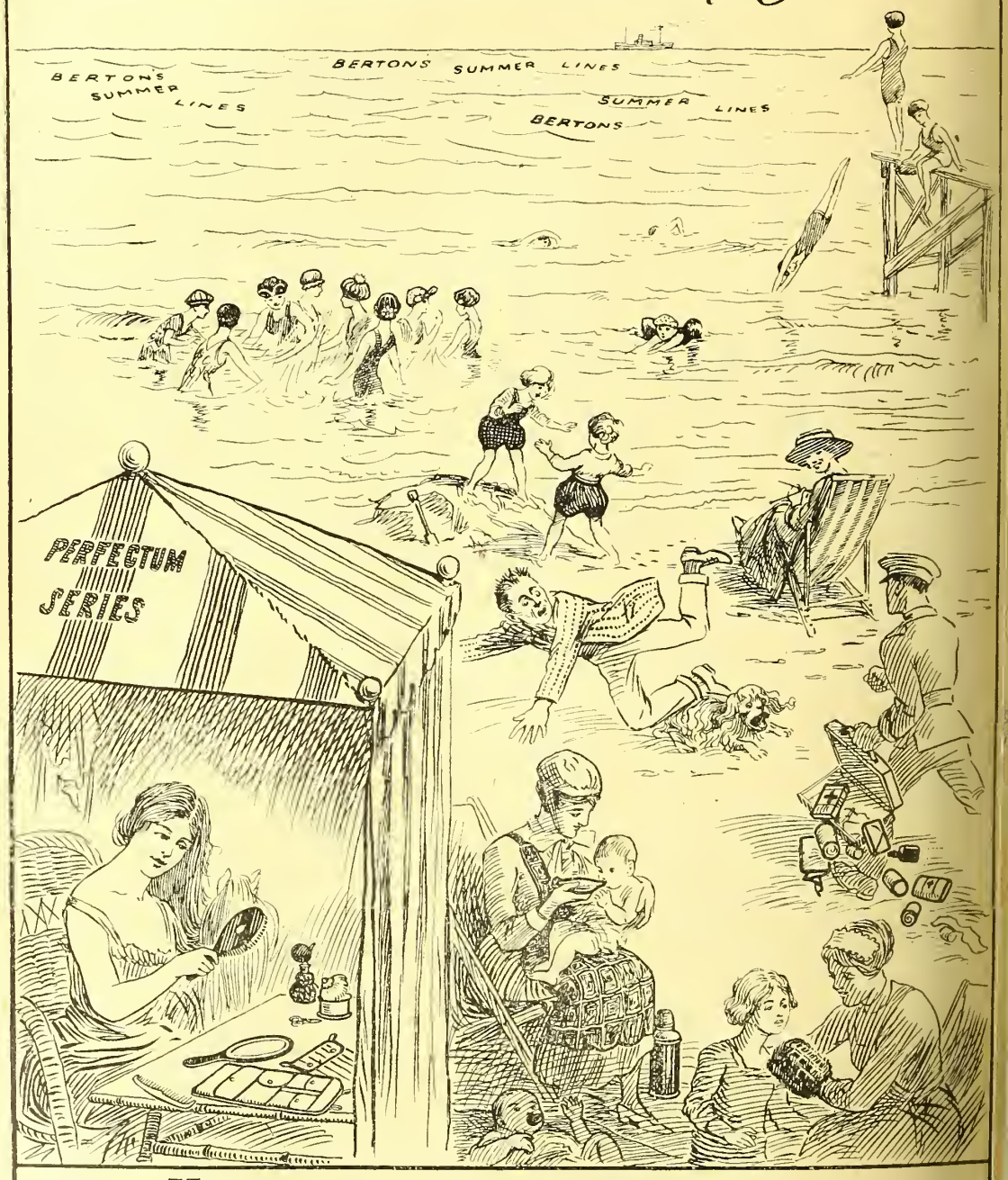


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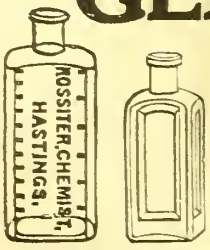


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**Poisons.** Actinic Green, Blue or Amber.

*SAMPLES AND PRICES UPON APPLICATION TO—*

**FARROW & CO., 87 Borough High Street, LONDON, S.E.**

Telephone—HOP 3222.

# The "Busy" Pharmacists Window

THEY COST
28 lb., 1/11 lb.; 56 lb., 1/10 lb.
1 cwt., 1/9 lb.
COMPLETE SHOW AND 200 CARTONS FREE with 56 lb.

## DISPLAY SULPHUR TABLETS NOW!

HAVE you made your first display yet? Many pharmacists have, and they are selling a very nice quantity. Round shape, orange-flavoured Sulphur Tablets are a favourite with the public, and our quality is spoken of as excellent by all our many customers. The wholesale price has been reduced by the fall in the price of sugar, which gives you an even better profit this year than last. Order Now!

# MOORLAND PHARMACY SERVICE

W·B·CARTWRIGHT·LTD.

RAWDON

NR LEEDS

# QUININE

MAARSSEN

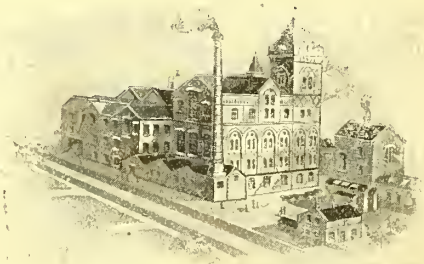
QUININE and QUININE SALTS.

Unexcelled in Uniformity of Quality,
Brilliant Crystallisation and Purity of Colour.

CINCHONINE, CINCHONIDINE, QUINIDINE,
and their SALTS.

NEDERLANDSCHE KININEFABRIEK, MAARSSEN, HOLLAND

AGENTS:— R. W. Greeff and Company, Ltd.
Thames House, Queen Street Place,
LONDON, E.C.4.

"John  Bull"
(REGD.)

# MALT EXTRACT

and

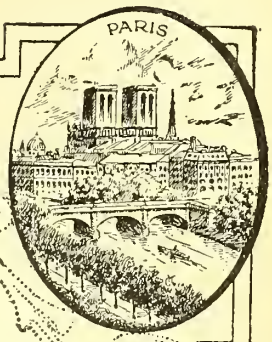
## MALT EXTRACT AND COD LIVER OIL

*IS THE BEST ! !*

Supplied in Bulk, Jars, Cardboard Containers, &c., for Wholesale and Export only.

MALT EXTRACT POWDER. MALT FLOUR for INFANTS' and INVALIDS' FOODS.

**PAINE & CO., LTD., ST. NEOTS, HUNTS.**

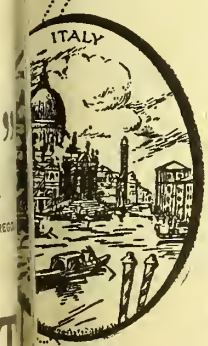



# PHARMACEUTICAL
AND
# PHOTOGRAPHIC PRODUCTS.

***R. W. GREEFF & Co., Ltd., offer at lowest prices the following products:***

(WHOLESALE QUANTITIES ONLY)

| | | |
|---|---|---|
| Acetanilid | Guaiacol Carbonate | Potash Sulpho-Guaiacolate |
| Acetone | Hexamine | Quinidine and Salts |
| Acetyl Salicylic Acid | Homatropine & Salts | Quinine and Salts |
| Acid Lactic | Hydroquinone | Quinine Ethyl Carbonate |
| Amidol | Ichthyol Substitute | Quinoidine |
| Amidopyrin | Kelene | Resorcin |
| Barbitone | Lemon Oil | Saccharin |
| Benzoic Acid | Lithia Carbonate | Salicylic Acid |
| Benzamine Hydrochlor. | Lecithin | Salicylate of Soda |
| Benzamine Lactate | Menthol | Salol |
| Benzo Naphthol | Mercurials | Soda Benzoate |
| Beta Naphthol | Methylene Blue Medicinal | Soda Hyposulphite |
| Bromides | Methyl Salicylate | Soda Sulphite Anhydrous |
| Calcium Lactate | Metol | Sugar of Milk |
| Chloral Hydrate | Paraldehyde | Tannic Acid Leviss |
| Cinchonine and Salts | Peppermint Oil | Tannin Albuminate |
| Cinchonidine and Salts | Pepsine | Tartaric Acid |
| Cocaine | Peptone | Terpineol |
| Creosote Carbonate | Phenacetin | Terpine Hydrate |
| Eucalyptus Oil | Phenazone | Theobromine |
| Gallic Acid | Phenolphthalein | Thymol Crystals |
| Glycerophosphates | Pyrogallic Acid | Vanillin |

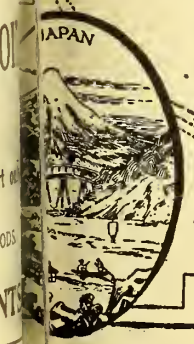


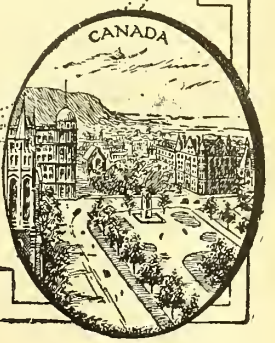
# R.W.Greeff & Co., Ltd.

THAMES HOUSE, QUEEN STREET PLACE,
LONDON, E.C.4.

*MANCHESTER BRANCH*
Lloyds Bank Buildings,
King Street.

*NEW YORK AGENTS*
R. W. Greeff & Co., Inc.,
78 Front Street.





# "FARRIS'S"

# GENUINE WHITE BEESWAX

**GENUINE REFINED YELLOW BEESWAX**

**In ½-oz., 1-oz., 2-oz. and 4-oz. rounds.**

## PURE ENGLISH REFINED SPERMACETI.

**HARD REFINED STEARIC ACID**

**WAXES of every known kind and for every purpose**

***The only actual Manufacturing Wax Chandler in the City of London.***

## CHARLES FARRIS

*OFFICES, WORKS and SALE ROOMS:*
**Helmet Court, Bishopsgate, London, E.C. 2.**
*WAREHOUSES and STORES:*
**91 & 93 Bishopsgate, & 12 Wormwood Street, E.C.2.**

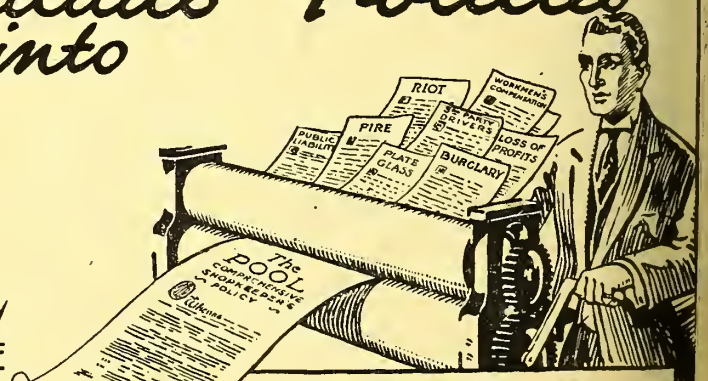


*Individual Policies rolled into*

**ONE**

THE
POOL
COMPREHENSIVE
SHOPKEEPER'S
POLICY

COVERS ALL RISKS
ANNUAL BONUSES




RISKS COVERED
Fire, Burglary and Housebreaking, Loss of Rent and Profits, Plate Glass, Employers' Liability, Public Liability, Third Party, Drivers, Lightning, Thunderbolt, Earthquake, Subterranean Fire, Gas Explosions, Bursting of Water Pipes and Boilers following Frost and Explosion, Storm, Flood or Tempest, War Aircraft, Bombardment, Riots, Strikes, Civil Commotion, etc., etc., at rates according to Trade.

THE LICENSES & GENERAL INSURANCE
COMPANY LIMITED
Victoria Embankment
Next Temple Stn W C 2

# Maw's Page

F bruary 26, 1921. No. 489.

## Real Service

That much-abused word "Service" has a very real meaning in the business transactions of the House of Maw.

We are not content merely to supply goods for a cash return ; we stipulate satisfaction on the part of every customer.

Towards all goods we supply we adopt the attitude of the old-time craftsman—we accept complete responsibility for all our products and are prepared to accept success or failure entirely on their merits.

This is not all : We go a step further. Our business is and always has been with the retail chemist. His aims are our aims. Therefore we adopt the fixed policy of protecting his interests to the limits of our power by supplying our goods to the chemist only and refusing to transact business with outside retailers.

This is Real Service. Something far finer than mere value for money. It is a business brotherhood based on the fundamental principle of Loyalty.

*The House of Maw is ready to serve you.*

Telephone: City 7 Private Branch Exchange

Telegrams: Eleven Cent London

S. Maw, Son & Sons, Ltd., London, England.

TRADE MARK

Cables: Eleven London

Code A.B.C. 4th & 5th Edition

# GLASSWARE

## OF EVERY DESCRIPTION and FOR ALL PURPOSES

JULES LANG & SON hold stocks in the Provinces ready for immediate delivery, and in their North and West London Depots.

*For the convenience of London customers who have not the accommodation we are prepared to deliver bottles washed.*

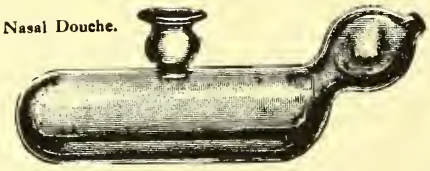
Kali

Lime

Medical

***Tubes of all sizes, Test Tubes, Douche Linings, Burettes, Separating Funnels and many other lines in Chemical and Laboratory Glassware.***

Nasal Douche.



Two-ended Feeder.

WHOLESALE ONLY. NO RETAIL FIRMS SUPPLIED.

# JULES LANG & SON

## Charlton Works, Charlton Place, Islington, LONDON, N. 1.

*Telephones:* North 2770-2 (three lines).
*Telegrams:* "Assorted, Phone, London."

*Codes:* A B C, 5th Edition; Scott's, 10th Edition (1906); and Bentley's Complete Phrase Code.

# 100% Satisfaction

## *Which would YOU sooner do?*

SELL some doubtful nostrum—and lose the confidence of your customers? Or, recommend an honest remedy which you know will give satisfaction?

### *What our Customers say!*

"My family is never without your valuable Medicine which I can highly recommend."
**W. Richardson,**
**46 Whitethorne Street, Bow, E.**

"Hood's Medicine always has done me good, and I try to recommend it all I can." **A. Cobbett,**
**57 Princes Crescent, Brighton.**

"Nothing does me so much good as Hood's. It is now 20 years ago since I first took it."
**Mary Hutton,**
**110 Glasgow Street, Hull.**

"We have always found your Medicines very good indeed and will do all we can to recommend them to all our friends." **Mrs. A. T. Wood,**
**1 Denmark Street, Darlington.**

# HOOD'S MEDICINE

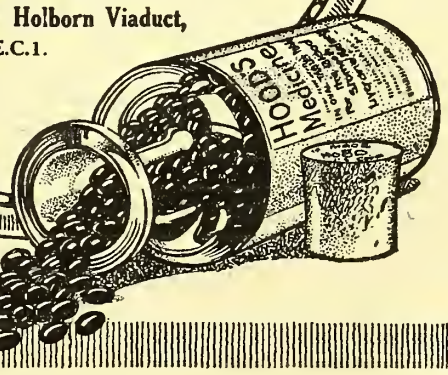
is a blood purifier and blood creator in one—for Blood, Stomach, Liver and Kidneys.

The goods cannot deteriorate, they are packed in glass bottles and substantially wrapped.

**The P.A.T.A. Profit is assured.**

## C. I. HOOD & CO., LTD.

**Cecil House, Holborn Viaduct,**
**LONDON, E.C.1.**



# Trade bad?

## —here's the Remedy

Let us undertake the whole of your Advertising and Sales Distribution.
Our organisation is complete in every detail, and any and every phase of publicity can be successfully handled.

### Advertising Section

For preparing Advertising Campaigns, effective "layouts" and "copy," and placing in the best papers suitable for the particular class of goods.

### Selling Organisation

by which, at shortest notice, any territory in the United Kingdom can be covered by experienced travellers, and a trade demand created for any product.

### Commercial Art Studio

An up-to-date department for producing high-class designs and sketches including Press Advertisements, Posters, Showcards, Attractive Labels, etc.

### Photographic Studios

Fully equipped for handling any branch of commercial photography. A special staff for outdoor work.

Each Section is in the charge of an expert.

The entire responsibility of your Advertising and Sales Distribution can be taken off your shoulders and assumed by us. As specialists in business development, possessing such an organisation for concentrated effort, we cannot fail to increase your sales and develop your business.

Write to us TO-DAY and let us discuss your business problems, or send you a copy of our House organ, "*The Gimlet*," which tells in an interesting way how we can serve you for better business. Sent to principals only on request preferred on business letterhead.

**Crockford-Hales Service Ltd.**

SPECIALISTS IN BUSINESS DEVELOPMENT

182-3 FLEET STREET, LONDON, E.C. 4.

Telephones : Central 3118, 3075.

AYRTON'S WEEKLY PAGE 15

# Make your window talk !

Does your window display create an impression ?

Do the public stop and look ; if so, are they influenced to buy ? A massed display creates that impression and desire to buy.

Utilise your window during the next few weeks by making a massed display of

## Sulphur Tablets

Sugar base, plain, and delicious orange and lime flavours.

| In bulk | 1 | 14 | 28 | 56 | 112 lbs. |
|---|---|---|---|---|---|
| Per lb. ... | **2/1** | **2/-** | **1/11** | **1/10** | **1/9** |

In tins containing 24 ... per dozen **3/-** ; per gross **33 -**
" " 56 ... " **6/-** " **69 -**

Name and address on orders for six dozen and upwards. Effective sales-compelling showcards and window poster are supplied with all orders.

**Cartons Free**

Cartons will be supplied, free of charge, with orders as follows :—

| 7 | 14 | 28 | 56 | 112 lbs. |
|---|---|---|---|---|
| 50 | 100 | 150 | 250 | 500 cartons |

ONDON AGENTS for
Ayrton
Toilet Articles
and Household
Remedies—
. C. GAMBLES & CO.
9 FARRINGDON ST.
ONDON, E.C. 4

**AYRTON, SAUNDERS & CO. LTD**
Manufacturing Chemists LIVERPOOL

# Spring is coming—and with it a record demand for ENO

NOW is the time to anticipate your customers' requirements for ENO—the world's premier Health Drink. Progressive Pharmacists all over the country are replenishing their stocks in readiness for those numerous daily requests—"A bottle of ENO please!"

ENO is one of the best P.A.T.A. sellers you can stock—because its consistent high quality and purity have won public appreciation and preference throughout the world for more than fifty years—and because ENO national advertising is constantly creating new customers and co-operating with your own selling efforts.

## ENO's FRUIT SALT

*"Brings Health to Your Customers and PROFIT to Your Business"*

**Write to-day for Trade Terms, advertising material, and details of our SPECIAL WINDOW DISPLAY OFFER to the SALES MANAGER, J. C. ENO Ltd., Blackfriars House, New Bridge Street, London, E.C.4.**

*The Eno Symbol*

*of Happiness*

# THE SALT THAT STANDS ALONE

"Mineral Spring" Health Granules are unique in many ways—in the size and brilliant colouring of the tins; in the crisp and sparkling effervescence, the medicinal activity and admirable keeping qualities of the contents; and in the trading conditions which allow a generous protected margin of profit and restrict the sale to Chemists and Druggists only.

"Mineral Spring" Health Granules are packed in two sizes, retailing at 1/- and 2/- respectively.

THOMAS KERFOOT & Co LTD
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
*ESTABLISHED 1797.*

COPYRIGHT

# ELCO preparations *for* Perfection and Profit.

APPROVED FORMULÆ.
ATTRACTIVE PACKING.
QUICK SALE.

*And an average Profit of 80 %*

EVANS SONS LESCHER & WEBB LTD.
Liverpool. New York. London.

## *ELCO SPRING REMEDIES AND TOILET PREPARATIONS.*

| | Wholesale. | Retail. |
|---|---|---|
| *Borated Dusting Paper* - - - | 8/6 | 1/3 |
| *Bay Rum and Cantharidine Hair Wash* - | 19/- | 2/6 |
| *Blood Purifier, 6-oz.* - - - | 15/- | 2/6 |
| *Carlsbad Powder, 4-oz.* - - - | 20/6 | 2/9 |
| *Carlsbad Powder, 8-oz.* - - - | 30/- | 4/9 |
| *Cold Cure Tablets, 20's* - - - | 6/- | 1/- |
| *Dental Foam* - | 10/- | 1/3 |
| *Glycerine and Cucumber Cream 2½-oz.* - - - | 11/3 | 1/3 |
| *Hair Invigorator* | 20/- | 3/- |
| *Liver Tonic, 5-oz.* | 18/- | 2/6 |
| *Syrup of Figs, 2½-oz.* - - - | 12/- | 1/6 |
| *Saline, 6-oz.* - | 16/- | 2/- |
| *Rubbing & Healing Ointment* | 8/3 | 1/1 |

***TERMS NET.***

***Special Terms for £5 orders. 5% Discount. 100 32-page illustrated booklets in decorated show outers supplied free with all first orders of £5 value.***

# There are Baby Powders and Baby Powders

ranging in quality from the ordinary Violet Powder type to the highly absorbent, delicately perfumed and efficiently antiseptic grade.

Even on the principle that nothing is too good for Baby, and further, that giving satisfaction to his customers by handling a super-quality line is good business, the retailer must discriminate in his purchases of this commodity.

But when these merits are combined with exceptional terms, namely—

a **10½d.** article at 6/6 per doz. showing an *assured* profit of **38** per cent. on Sales and when purchased on best terms—with a special bonus of **18** free boxes, showcards, etc.—a profit of over **45** per cent.,

such a line must compel the immediate attention of the Pharmacist.

**"SANOID" BABY POWDER** alone offers you all these advantages.

*Write to-day—*

**Cuxson, Gerrard & Co., Ltd.,**
**OLDBURY, near BIRMINGHAM.**

# CHEMICAL WORKS FLORA, Ltd.

## DUBENDORF, ZURICH,

SWITZERLAND.

**Essbro Base & Fixative 30**

Recommended for Rose Compositions. Good binding fixative, bringing out powerfully and evenly the fragrance of the perfume

**Essbro Base & Fixative 103**

Serves for all perfumes imitating the character of a new type.

**Essbro Base & Fixative 112**

Useful for Lilac and Lily Compositions. A good fixer.

**Essbro Base 102**

Serves a a base for all exquisite compositions.

**Essbro Base 209**

Is a robust and permanent blend, particularly useful for high-class perfumes of an intense quality.

**Essbro Base & Fixative 208**

The same description applies to this as to 209.

**Essbro Base 210**

Base of such well-known types as Jockey Club, etc. Great yield and good fixer.

**Essbro Base 485**

Harmonises ingredients in combination. Serves as base for fine Musk Perfumes, capable of producing strong and enduring aromas.

**Essbro Base 135**

Of a novel character. This powerful product is suitable for fine perfumes, cosmetics, toilet powders, &c. Recommended for Chypre Compositions.

*We have just placed on the market a new series of Flower Oils, etc., as follows—*

ESSBRO BOUVARD A 389 For all Perfumes of a refreshing character.
ESSBRO CARNATION 273 The odour of the White Carnation.
ESSBRO CARNATION 125 The odour of the Pink Carnation.
ESSBRO CYCLAMEN 206 For Lilac and Lily compositions.
ESSBRO HELIOTROPE 107 Absolutely true to nature.
ESSBRO HELIOTROPE 517 A cheaper grade.
ESSBRO HONEYSUCKLE 514 Exact reproduction of the flower.
ESSBRO HONEYSUCKLE 511 A cheaper product.
ESSBRO JASMIN FLOWERS 492 Replaces advantageously the natural concrete Jasmin.
ESSBRO JASMIN 499 Exceptionally Strong.
ESSBRO JASMIN COLOURLESS 510 Never turns red.
ESSBRO LILAC 484 Gives the exact odour of Purple Lilac.
ESSBRO LILAC 503 A cheap grade.
ESSBRO LIME TREE 136 Very true to nature.
ESSBRO LIME TREE 516 Exact reproduction of the Lime of Central Europe
ESSBRO MARGUERITE 97 Can also be used for tobacco.
ESSBRO MUGUET 27 A cheap grade, but good.
ESSBRO MUGUET 85 A true perfume, especially in freshness.
ESSBRO MUGUET 454 Giving a different note.
ESSBRO ORCHIDEE 14 Gives the heavy odour of the Orchid.
ESSBRO ROSE ORIENTAL 104 A standard quality at a moderate price.
ESSBRO ROSE 93 Gives the distinctive odour of the Pale Rose.
ESSBRO ROSE 127 True odour of the Deep Red Rose.
ESSBRO ROSE 258 Giving a different note
ESSBRO ROSE MARECHAL NIEL 3 A fresh and characteristic odour.
ESSBRO ROSE 120 Replaces the Bulgarian Otto.
ESSBRO SWEET PEA 538 A delightful perfume.
ESSBRO VIOLET 411
ESSBRO VIOLET 502
ESSBRO VIOLET 506
Products of rare odour, natural and true; they yield exceptionally well.
ESSBRO WALLFLOWER 10 Gives a sweet and robust odour.
ESSBRO WALLFLOWER 560 The perfume of the yellow variety.

*Samples, Prices and Full Particulars from our Sole Agents.*

# CHAS. ZIMMERMANN & CO. (Chemicals) LTD.

## 33 St. Mary-at-Hill, London, E.C.3,

and 6 Fennel Street, Manchester.

Manager Essential Oil Dept.: Wilfrid V. Guenigault.

TELEPHONES:
London: Avenue 5933, 5934, 5935, 5936
Manchester: City 1516

TELEGRAMS:
INLAND—"Acidolan, Pilgate, London"
FOREIGN—"Acidolan, London."
MANCHESTER—"Acidolan, Manchester."

*Established 1880.*

# SYNTHETIC OTTOS

"Zinyl" Brand (Regd.)

## TRUE SYNTHETIC PRODUCTS.

THE Synthetic Otto of Neroli, "Zinyl" Brand, for instance, used in the proportion of ¾ oz. to the gallon of spirit is equal to a concentration of 220 times, or about five times stronger than ordinary "concentrated perfumes"; this gives an excellent basis for Eau de Cologne, and we suggest a reference to "Pharmaceutical Formulas" for many admirable forms for this and other perfumes.

Yet the present price of this Otto is only 10/- oz., against to-day's value of fine Oil of Neroli about 90/- oz., and 5 drachms of the Synthetic Otto are equal to one ounce of the natural oil.

Some of the Synthetic Ottos show even greater advantages, *e.g.* Rose (described by the *Chemist and Druggist* in 1912 as "a triumph of Synthetic Chemistry") is still 21/- oz., while fine Turkish Otto is quoted to-day about 90/- oz.!

In the manufacture of all Toilet Preparations the Synthetic Ottos by reason of their enormous concentration will be found wonderfully economical.

Synthetic Otto Rose "Zinyl" Brand.

"This product has a remarkably sweet rose odour, quite "free from any objectionable smell of rose geranium. The "abnormal prices of otto of rose and its excessive adulteration "are forcing perfumers to depend more and more on the "synthetic product which has the advantage of constancy."

*Chemist & Druggist.*

## Oriental Synthetic Otto

"ZINYL" BRAND.

This beautiful product has a most powerful heavy odour absolutely reminiscent of the Far East and is a pronounced success, being supplied to various well-known houses 17/6 OZ.

## H. E. STEVENSON & CO.

122 Great Suffolk Street, London, S.E.1.

# TERPENELESS OILS
BRITISH MADE

We manufacture exclusively ourselves all kinds of Terpeneless Oils, and invite inquiries from users throughout the world.

*WE SPECIALISE IN TERPENELESS :*

Anise (Anethol)
Bay
Bergamot
Caraway
Cassia
Cinnamon
Clove
Dill
Geranium
Ginger
Juniperberry
Lavender
Lemon
Limes
Mandarin
Nutmeg
Orange
Peppermint
Petitgrain
Rosemary

CINNAMIC
ALDEHYDE
GERANIOL

CITRAL
EUCALYPTOL

SICILIAN
LEMON - BERGAMOT
ORANGE - MANDARINE.

# SPINELLI

The Oils that have a Long Reputation for Quality.

In the manufacture of our Terpeneless Oils it was imperative that we secured the very finest Sicilian Oils to work upon. After several exhaustive tests we came to the conclusion that the "SPINELLI" brand of Sicilian Oils gave us the best results. As we were able to place large orders for our own needs with the manufacturers, we have pleasure in stating that they have entrusted us with their British Agency, and we offer to users of Sicilian Oils the benefit of our experience. There is a quality in every package. Guaranteed Genuine Oils of authentic origin, and to conform to any analysis as to purity.

# HOLLANDS DISTILLERY LTD.
Lavington Street, Southwark, LONDON, S.E. 1.

A B C Code, 5th Edition.
Western Union.

Telegrams: "LANDSLOH LONDON."
Telephone: Hop 898.

AUSTRALIAN AGENTS.—OURY, MILLAR & CO., LTD., 350 Kent Street, SYDNEY.
INDIAN AGENT.—Mr. W. CARR, c/o GRINDLAY & CO., BOMBAY.



# Shipkoff's Pure Otto of Rose

*The TEST of Cheapness is QUALITY—not PRICE*

SHIPKOFF'S OTTO OF ROSE is the Cheapest, because it is the *Best Otto* in the market. It is the *Standard Brand*—always *pure, uniform* and *one quality only*. Before placing your contract, be sure to get Shipkoff's sample and price, and try it. Original Sample Coppers in 1, 2 and 4-oz. sizes.

*ONCE TRIED—ALWAYS USED.*

Highest Awards at all Universal Expositions, including Four Grand Prizes.

**Shipkoff & Co., Kazanlik, Bulgaria.**

Branch Office in Sofia.

Model Steam Factories in Kazanlik, Kalofer, Kerlovo and Rahmenlari. London Depot—

G. P. & J. BAKER, LTD., 5 Giltspur St., Newgate St., E.C. 1.



# A. GIDLOW & CO.
(Established 1896)
Broom Lane, Levenshulme, MANCHESTER.

MANUFACTURERS OF

# SHAVING CREAMS

Packed in 1-lb., 2-lb., 7-lb. Boxes and 56-lb. Cases.
Also packed in Collapsible Tubes.

PROPRIETORS & MANUFACTURERS OF

## RENARD'S POMADE HONGROISE

Also supplied in unlabelled Tubes and Bulk.

Samples and Prices on Application.

*WHOLESALE ONLY.*



# DODGE & OLCOTT CO., 20 MARK LANE, LONDON, E.C. 3.

THE "D & O" BRAND

*is the "Standard of Quality" for*

OILS of BAY, CEDARWOOD, PATCHOULI, PEPPERMINT, SASSAFRAS, ETC.

BALSAMS of Copaiba, Peru, Tolu.

TONKA BEANS, Angosturas.

Phone—
CITY 2468.

Telegrams—
"EGDARF, FEN, LONDON."

# ESSENFLOUR PRODUCTS LTD.

## MYSORE (S. INDIA)

*Distillers of Essential Oils and Manufacturers of Perfumery Products*

AMBRETTE SEED OIL
CARDAMOM OIL
CALAMUS ROOT OIL
CORIANDER OIL
CINNAMON BARK OIL
CINNAMON LEAF OIL (a Speciality)
CLOVE OIL B.P.
DILL OIL (East Indian)
EUGENOL
GINGER OIL
NUTMEG OIL
PATCHOULY OIL
VETIVERT OIL (S. Indian)

*Sole Agent for Europe—*

## K. B. MAVLANKAR

**26/27 Hatton Garden, LONDON, E.C.1**

**and 29 Corporation Street, MANCHESTER.**

# RESTUCCIA'S Pure Sicilian Oils.

## LEMON
## ORANGE
## BERGAMOT

*Finest quality with a world-wide reputation.*

THE
**CITRUS BRAND and MANUFACTORY**
(G. A. RESTUCCIA, Manager)
**MESSINA - - ITALY.**
*(Established 1860)*
LONDON AGENTS:
J. ALEXANDER & PRICE, Ltd. - 5 Idol Lane, E C. 3

# INSECT FLOWERS

***(Japanese Best Quality).***

1919 Crop was only 50 % of that of 1918, and present prices are 400 % higher than 1918. 1920 crop to be harvested May-June is estimated 20 % below that of 1919. If demand continues as at present, the present unprecedently high price will be exceeded.

We have shipped hundreds of tons with unanimous satisfaction to our customers.

Cable us your inquiries.

We are an all British - American firm, specialising in business that ensures satisfaction.

## The Mutual Traders,

**24 Nakayamate-dori, 2 chome,**
**KOBE, JAPAN.**
Cable Address—"Simsland." [7]

ROSE & Co.
ESSENCES.
FRUIT OILS.
EXTRACTS.
HAARLEM. HOLLAND.

*Buy from the Actual Distillers.*

EUCALYPTUS
B.P. & U.S.P. OILS 60/65% 70% 75/80%

EUCALYPTUS AMYGDALINA
EUCALYPTUS CITRIODORA
EUCALYPTOL (CINEOL)

*We will quote you C.I.F. afloat or ex London Stocks.*

GILLARD GORDON, LTD.
(Amalgamated with Burnside & Co.)
HEAD OFFICES - SYDNEY.
LONDON OFFICES:
7 Drapers Gardens, Throgmorton Avenue, London, E.C. 2
Telephone No.: London Wall 8237.

PURE ESSENTIAL
OIL OF HOP.
Singly and fractionally distilled.
HIGHEST CONCENTRATION AND PURITY GUARANTEED.
*Prices, samples and information from the distillers:—*
WHITE, TOMKINS & COURAGE, LTD.
HEAD OFFICE:
48 Mark Lane, LONDON, E.C. 3.
And at
LIVERPOOL, BELFAST, BOSTON, and TANDRAGEE.

— PURE —
— BULGARIAN —
OTTO DE ROSE
Guaranteed by —
F & A. Swanzy Limited.
West Africa House Kingsway.

# POUDRE DE LUZY

## NO LOSS OF PROFIT IF PRICES ARE REDUCED.

We do not anticipate lowering our prices in the near future, but if we do, we will credit the difference in price on receipt of certified statement of stock on hand.

**FREE** To any Chemist or Branch Manager unacquainted with this excellent and profitable line we will send, on request, a 10½d. box for trial purposes.

**W. H. CALNAN & CO., Ltd., 30-32 Ludgate Hill, E.C.4**

---

**GOOD ILLUSTRATIONS**

similar to R 346, 4/-

help the advert. to appeal to the right people, and are a gilt-edged investment. They ensure good results from your adverts. Our Business Bringing Blocks merit their name. Write to-day for list.

CHEMISTS' DESIGN SERVICE,
12 Humberstone Gate, Leicester.

---

*Fanchette* (Regd.)

## LIQUID FACE POWDER

A Charming Toilet Preparation.

Selling Price, **2/6** per bottle.

*Retailers, Less 33⅓%* *Wholesalers, Less 33⅓% & 20%*

*Sole Lond n Agents:* **V. P. HOLLIDAY & Co.**
5 The Facade, Wightman Road, Harringay, N.4.

*MANUFACTURERS:*
**HARRIES,** Fanchette Toilet Preparations,
46 PARK CRESCENT MEWS WEST, W. 1.

---

# "IRISH ELEGANCE" [Regd.]

**The Winning Perfume—Fragrance of Midsummer Roses.**

| *In three sizes* | *Wholesale* | *Retail* |
|---|---|---|
| Small | 28/- doz. | 3/6 |
| Medium | 48/- „ | 6/- |
| Large | 168/- „ | 21/- |

*Usual Trade Terms.*

PRODUCT OF

**The EVAN-WILLIAMS Co., Ltd.**

18-18a Ogle Street, London, W. 1.

**SHOWCARDS SUPPLIED.**

An established favourite and ready seller.

# "DUCHESS"

ASSORTED

# TOILET SOAP

**4½d. Tablets.**

PRICE PROTECTED. NO CUTTING.

SALE RESERVED
exclusively to Chemists

Ask us to quote for your "Own Name" soap.
We can please you in quality and price. Samples free.

ERASMIC Perfumers WARRINGTON.

BUYERS OF
GOOD
# TOILET GOODS

INTERESTED IN
HIGHEST QUALITY
AND KEEN PRICES

SHOULD MAKE A POINT
OF VISITING

**STAND No. H. 26**

AT THE
BRITISH INDUSTRIES FAIR

WHITE CITY, from FEB. 21 to MARCH 4, 1921.

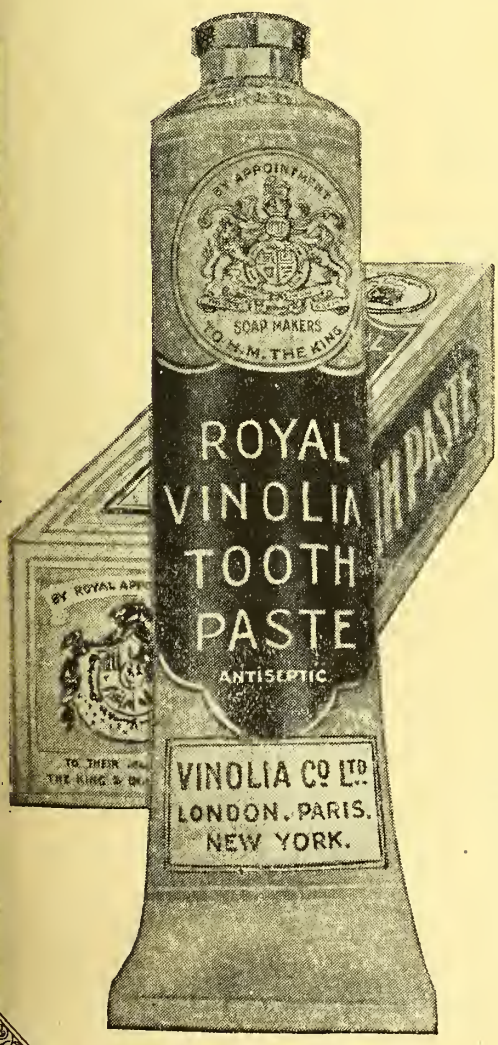
**C. A. STOKES & CO. Ltd.**
**11 "Eclipsol" Works, BRISTOL.**

# ROYAL VINOLIA TOOTH PASTE

*(ANTISEPTIC.)*

## A "TRUE BRITISH" DENTIFRICE.

*For those who prefer a dentifrice in powder form, Royal Vinolia Tooth Powder will be found equally delightful and satisfactory.*
*Tins, 9d. & 1/3*




**THIS is a scientifically prepared Dentifrice of the greatest merit, which makes the teeth white, preserves them from decay, and keeps the mouth and throat pure and free from disease germs. It can be recommended with every confidence.**

It contains valuable antiseptics, the combined action of which may be relied upon to arrest and prevent decay and to destroy micro-organisms in the mouth and throat.

It keeps the breath pure and sweet, and does not injure the enamel of the teeth. It is equally suitable for children and adults.

Children especially are very fond of it, for whilst it contains valuable antiseptics, it has also a pleasant flavour, which is a considerable factor in getting children to give regular attention to their teeth.

***This is a most satisfactory Tooth Paste for the Pharmacist to recommend. It makes a striking display on the counter or in the window—it sells quickly and yields a good profit.***

RETAILS IN TUBES IN TWO SIZES

**7½d. and 1/3**

VINOLIA COMPANY LIMITED, LONDON.

Offices and Works: BEBINGTON, CHESHIRE.

RV 469—29 T

# PAPIER POUDRÉ

TRADE MARKS

"LEHCARESOR."

Papier Poudré

## British Made Goods.

*Beware of Spurious Imitations*

**Note our Trade Marks.**

REGISTERED

PAPIER POUDRÉ, LTD.,
46 Baker St., Portman Sq., London, W.1.
and in Paris.

**WHITE, ROSE or RACHEL Tints, 4d., 6d., 8d. and 1/4 size Booklets, 2/8, 3/9, 5/- and 10/- per dozen net, respectively.**

**SUNBURN TINT, 8d. & 1/4 sizes only, 5/- & 10/- per doz. net.**

**REFILLS** to Mirror Cases in White, Rose or Rachel ... ... ... ... **2/8** per doz. net.
**8d. SHAVING PADS**, for Use after Shaving (unscented). White only ... **5/-** per doz. net.

# POPPŒA ROUGE

***A most popular line.*** (Regd.)

Made in booklet form. One size only, viz. **1/-**, at **8/-** per dozen net.
**Mirror Cases 1/4** at **10/-** per doz. **Refills** for same **6d.**, at **3/9** per doz. net.

NOTICE TO THE TRADE.—As supplies of material have now reached a state of normal condition we are in the position of being able to execute all orders.

**PAPIER POUDRÉ, Ltd., 46 BAKER STREET, PORTMAN SQ., LONDON, W.1**

# An old friend comes to your aid

THERE'S no use blinking the fact, trade is not good, no matter where you turn, and we must all increase our efforts if turnover and profits are to be maintained.

Being optimists we believe that business can not only be maintained but improved, and to this end we are increasing our co-operation with the Pharmacist.

You will shortly receive particulars of a

## Window Display Competition

offering to you and your assistants valuable money prizes of over

## 300 Guineas.

**NO CONDITIONS WHATEVER.**

Just make the best display you can; increase your sales of a very profitable and quick-selling article—and

## WIN A BIG CHEQUE!

*Eucryl, Ltd.*

*SHIRLEY, SOUTHAMPTON.*

# IMPORTANT ANNOUNCEMENT REGARDING

# SILKODONO

## for the HAIR & SCALP

## *NOW OBTAINABLE IN*

## 4-oz. 1/6 Size.

THE Trade will doubtless be interested to learn that we are now offering SILKODONO in 4-oz. Sprinkler Top Bottles at the popular price of 1/6. We have introduced this new size in response to urgent requests from many of our customers who are at present selling SILKODONO in the 2/6 and 4/6 Sizes, but who feel that with the help of an introductory size they can largely increase their sales. The 1/6 size SILKODONO which is put up in attractive style in a somewhat novel transparent wrapper is destined to prove a lively and highly profitable seller. Every Chemist can now enjoy the full benefits of the SILKODONO Advertising, as this splendid quick-selling Hair Preparation is now offered at graded prices that bring it within the means and requirements of all classes. As a result of our Advertising and Great Sampling Scheme, Men and Women are asking for SILKODONO every day in ever incre sing numbers. Don't turn good business away unless you want to do your Competitors a good turn.

## Read this

***A number of Chemists are losing good Profits and Customers every day.***

We have received letters from people who, as the result of our extensive Sample Advertising Campaign, have tried SILKODONO and finding it of real benefit to their Hair are desirous of using it regularly, but are frequently unable to obtain supplies from their usual Chemist.

In these cases we are obliged to send them the name of the nearest Chemist who *does* stock SILKODONO. The result is that this Chemist gains a regular customer while the other loses one. And if it were only a case of losing the profit on a bottle of SILKODONO say once a month it would not matter a great deal, but here is the rub—if you lose a customer for SILKODONO you have lost him for a great many other things beside.

Now, is it policy or common sense to lose profitable business in this way, when you can avoid the loss by making a small investment in SILKODONO? If you can't order in dozens, try half-a-dozen or even a quarter of a dozen. In your own interests do not go another day without SILKODONO.

## Splendid BONUS Terms for February

*On 1/6 Size SILKODONO*

**Wholesale Price 12/- Per Dozen,**

**and**

**2 BOTTLES EXTRA with each dozen**

**thus yielding a clear profit of 8/- on an outlay of 12/-.**

Provincial Orders for 3 dozen and upwards, Carriage Paid. Orders for 1 dozen or less, Carriage forward. (All London Orders delivered by our own motors). Economy in carriage of small orders can be effected by ordering through your Wholesale House.

## SHOWCARDS FREE

**for Window and Counter Display Also Booklets on SILKODONO Hair culture for Men, Women and Children. Send for free sample and test SILKODONO for yourself.**

## SILK'S TOILET COMPANY,

**RED LION STREET, HOLBORN, LONDON, W.C.1.**

Telephone: HOLBORN 3095. Telegrams: "SILPORANOB, HOLBORN, LONDON."

# Increasing Popularity of "HARLENE HAIR DRILL."

## EVERY DAY EMPHASISES THE NECESSITY FOR MEETING THE PUBLIC DEMAND.

**(See Special "Carriage Paid" Offer below.)**

The widespread publicity initiated by the Proprietors of "Harlene" over a number of years and vigorously maintained right up to the present time, in spite of many difficulties, continues to draw an immense response from all parts of the country. Thousands of sample parcels are dispatched daily, thus increasing the number of possible customers to retail stores everywhere.

**HAVE YOU A GOOD STOCK OF "HARLENE HAIR DRILL" PREPARATIONS ?**

**NOTE—The Contents of the Free HARLENE OUTFITS Comprise:**

1. **A Trial Bottle of Harlene**
2. **A "Cremex" Shampoo Powder**
3. **A Trial Bottle of "Uzon" Brilliantine**
4. **Book of Instructions**

## FOLLOW THE TIDE OF SUCCESS.

**Watch the Great Free Gift Advertising Campaign that brings the Customers to your Shop.**

**IMPORTANT NOTICE.**—We are pleased to announce that, owing to the slight drop in cost of raw materials, we are now able to execute ***orders carriage paid*** on parcels of assorted goods to the value of £5 and upwards, net. Case charged 2/6 extra, allowed for in full if returned, carriage paid, within 7 days.

***This Special Offer is Strictly Cash with Order.***

Free Cases are entirely discontinued. In no circumstances will carriage be paid on orders less than £30, where goods are charged to a/c. Every Chemist and Stores should avail themselves of this profitable £5 Carriage Paid Parcel Offer ***at once.***

**EDWARDS' HARLENE, Ltd.** 20, 22, 24 & 26 Lamb's Conduit Street - LONDON, W.C. 1.

# BOURJOIS

PARIS.

# POUDRE de RIZ de JAVA

Gentlemen, *February 1921.*

We have much pleasure in advising you that the price of

**POUDRE DE RIZ DE JAVA No. 45**

is

**Reduced to 10/- per dozen.**

The price to the public will not be altered until March 1st, when the selling price will be **1/3** per box.

The small size, **No. 495,** is also reduced to **7/-** per dozen, and from March 1st this will retail to the public at **10½d** per box.

Trusting to have the pleasure of your orders, and assuring you at all times of our best attention.

We are, yours faithfully,

**A. BOURJOIS & CIE, LTD., 66 Carter Lane, LONDON, E.C. 4.**

# QUALITY, APPEARANCE and PRICE.

These are three considerations the keen distributor has to bear in mind. If you study these points it will pay you to send for our Price List.

ALL ORDERS CARRIAGE PAID and COMPLETE SATISFACTION GUARANTEED.

## THE ABBEY CO. LTD.

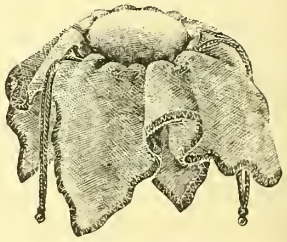
**4 Clerkenwell Green, LONDON, E.C. 1**

*Manufacturers of all Kinds of Perfumes and Toilet Preparations.*

Phone: 9693 CENTRAL

# PUFFS!

*Made in Our Own Factory.*



*Wholesale and Export.*

**AS THE ACTUAL MANUFACTURERS**
of these
**NECESSITIES**
we can offer
**EXCLUSIVE**
designs
**IN WHOLESALE QUANTITIES**

**Our silk-lined handkerchiefs are the VERY LAST WORD!**

*Enquiries welcomed.*

**WILLIAMSON BROS.,** 16 Southwark Street, S.E.1.

Phone: Hop 3419. *Controlled solely by Ex-Service Men.*

*Are you in a position to satisfy your customers' requirements when they enquire for a RELIABLE Hair Dye?*

*If not, let us advise you to try*

# LAURENCE'S HAIR DYE

***This is a reliable and well-tried preparation and can be depended upon to give the utmost satisfaction.***

***It is a one-solution dye, and is made in the following shades—Raven Black, Black, Dark Brown, Medium Brown, Brown, Light Brown, Auburn, Chestnut and Golden Blonde.***

We print your name and address on the labels, if requested, on orders of 3 dozen and over. Prices are protected by the P.A.T.A.

| | | | | |
|---|---|---|---|---|
| Face and Minimum Retail Prices ... | **1/9** each ; | **2/6** each ; | **3/9** each ; | **5/-** each. |
| Wholesale Prices ... | **15/-** doz. ; | **20/-** doz. ; | **30/-** doz. ; | **36/-** doz. |

Less 5% Discount, Carriage Paid, on orders of 3 doz. and over.

Special Bonus: Buyers of 3 dozen lots receive 3 bottles gratis.
" 6 " " 8 " "
" 12 " " 18 " "
of the size ordered, or the equivalent in other sizes.

Showcards and Advertising Matter supplied free. Colour Chart, with specimens of Hair dyed in different shades, on application.

*Sole Proprietors and Manufacturers—*

**C. R. HARKER, STAGG & MORGAN, Ltd.,**

**DEVON WHARF and BELL WHARF, MILE END, LONDON, E. 1.**

# DEARBORN

LIMITED

37 Gray's Inn Road, LONDON, W.C.

## Toilet Specialities.

| | Price per doz. to Retailer. | Selling Price P.A.T.A. |
|---|---|---|
| PILENTA SOAP - A complexion soap. | 10/- | 1/- |
| PROLACTUM - - For the lips. | 10/- | 1/- |
| PARSIDIUM JELLY For wrinkles. | 10/- | 1/- |
| ALLACITE of ORANGE BLOSSOM A dressing cream. | 22/6 | 2/6 |
| BORANIUM - - A hair tonic. | 22/6 | 2/6 |
| CLEMINITE - - For a face lotion. | 22/6 | 2/6 |
| COLLIANDUM - - For a face tint | 22/6 | 2/6 |
| PERGOL - - - A deodorant. | 22/6 | 2/6 |
| STALLAX - - - For a shampoo. | 22/6 | 2/6 |
| JETTALINE - - For clearing the skin. | 31/6 | 3/6 |
| PHEMINOL - - A depilatory. | 36/- | 4/- |
| MENNALINE - - For the eyelashes. | 36/- | 4/- |
| MERCOLIZED WAX A face cream. | 31/6 | 3/6 |
| STYMOL - - - For oily complexions and blackheads. | 36/- | 4/- |
| BARSYDE - - Dandruff eradicator. | 22/6 | 2/6 |
| TAMMALITE - - For grey or faded hair. | 22/6 | 2/6 |
| LIQUID PERGOL - To check excessive perspiration locally. | 31/6 | 3/6 |
| BICROLIUM - - For whitening the hands. | 22/6 | 2/6 |
| HARAPOSA - - Nut oil shampoo. | 22/6 | 2/6 |

**STOCKED BY ALL WHOLESALE HOUSES**

**COLONIAL DEPOTS AND AGENCIES.**

**AUSTRALIA:**
ALL WHOLESALERS, and
DEARBORN, Ltd., Grace House, Clarence Street, Sydney.

**SOUTH AFRICA:**
LENNON & CO., Ltd (Cape Town)
SIVE BROS. & KARNOVSKY, Ltd. (Johannesburg)

**INDIA:**
KEMP & CO., Ltd. (Bombay)
THE INTERNATIONAL TRADING CO., Princess Street (Bombay)
R. MACLURE (Madras)
SMITH, STANISTREET & CO. (Calcutta).
MEHTA BROS (Calcutta)
JAMNADAS BROS. (Bombay)

**NEW ZEALAND:**
SHARLAND & CO., Ltd. (Auckland & Wellington)

**SOUTH AMERICA:**
DEARBORN, Ltd., Calla Salta 264, Buenos Aires.

# Concerning 80% of Your Middle-aged Customers.

IN certain medical clinics throughout the world it has been established that many diseases of middle-age are caused by infected teeth.

Four out of every five people over forty have Pyorrhea. These people should use a preventive dentifrice.

Forhan's For the Gums cleans and polishes the teeth; it keeps the gums firm and healthy. It is conspicuously advertised in important magazines and newspapers. It sells quickly; the turnover is decidedly profitable. Write for full trade information.

THOS. CHRISTY & Co.,
4/12 Old Sandy Lane,
LONDON, E.4.

# Forhan's

FOR THE GUMS

# HOUSEHOLD SOAP

In view of the opinion expressed by a Government Committee recently and so widely published in the National press that a good quality Household Soap should be available retail at 8½d. lb. we draw attention to the fact that we are now able to offer a Bar Soap of excellent quality, colour and detergent properties at

## 6½d. lb.

**1-cwt. cases free**
**(smalls 7d. lb. net)**

Bars are approximately 40 to the cwt. and we supply a showcard offering the same retail at 1/10½ bar or 8½d. the single lb.

*Sample of the Soap will be gladly sent on application.*

**EVANS SONS LESCHER & WEBB LTD**

**Liverpool New York London**

# JOHNSON'S
# BABY SOAP.

## The Companion to the World-known Antiseptic Toilet and Baby Powder

It is a perfectly bland, neutral soap, suited for either babies or grown-up people. It may be used in the same manner as an ordinary toilet soap with absolute confidence. The most delicate skins are those of the new-born baby or very young child. Johnson's Baby Soap originated in a desire by physicians and nurses for a soap suitable for the baby's skin.

**BRITISH MADE.**

**Packed 3 tablets in box. Price 8/- per doz. tablets.**

**JOHNSON & JOHNSON,** New Brunswick, **NEW JERSEY, U.S.A.**

*Agents:*

**JOHN TIMPSON & CO., Ltd.** 104/106 Golden Lane, **LONDON, E.C. 1**

# PROFITABLE LINES THAT PAY.

**SPUN OINTMENTS**
In new series of Decorated Tins.
*Write for Quotations.*

**"NUXOCOL" LIQUID COCOA NUT OIL SHAMPOO**
12/- doz. Sells 1/9
*Showcard.*

**"NUXOCOL" COCOA NUT OIL SHAMPOO POWDER**
24/- gross Sells at 4d.

**BRILLIANTINE**
New Series.

**FRO-ZOF**
An entirely new preparation for Corns.
*Showcard.*

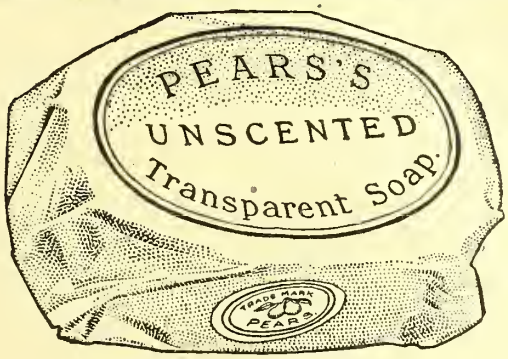
**JABORANDI OIL**
**For the Hair**
New Brilliantine Hair Grower
Price 11/- doz. Sells at 1/9
*Packed in Show Outers of 6.*

**Poudre Charme de Riz**
An entirely new line, most profitable to handle.
3 sizes: 4½d. 1/- and 2/-
Cost: 36/- gr. 78/- gr. 144/- gr.

**COLD CREAM**
New design label.
In octagonal pots.
Beautifully packed. Fine Seller.

*We pack everything necessary to a Chemist's Business.*

**ROBERT BLACKIE, Wholesale Manufacturing Chemist,**
**Shen Works, Tower Bridge Road London, S.E. 1**




*The quicker your turnover the greater your profit. Pears' Soap sells so quickly it costs you little or nothing for stock-room.*

Pears

A. & F. Pears, Ltd., 71-75 New Oxford Street, London, W.C. 1.

HANDSOME IMITATION GOLD

**POWDER or PUFF BOXES**

Owing to the exceptional sale during the past few months of this new line, we have now made arrangements for increasing output sufficient to promptly supply the demands.

| | Gross |
|---|---|
| Up to 10 gross - - | 58/- |
| Over 10 gross and up to 50 gross, | 57/- |
| Over 50 gross - - - | 56/- |

**THESE PRICES DEFY COMPETITION**

These boxes are splendidly finished to imitate gold, and convex mirrors can be fitted into the lids at an extra charge of 18/- per gross.

**The Boxes are sold retail at 2/- each, and (1) empty; (2) with loose Face Powder; (3) with Compact Tablets, or (4) with Puffs.**

SAMPLE UPON APPLICATION.

**FRANK BUCKLER, LTD.**

*Castle Works, Mount Pleasant Road,*

Tottenham - LONDON, N. 17.

**Orisal** Regd.

**The Original & Successful Remedy for PYORRHŒA**

Prescribed by the Dental Profession.

**PRICES.**

| | Wholesale (including Government Duty) | | Retail | |
|---|---|---|---|---|
| Dental Paste | 22/- | per doz. | 6d. | 2/6 per tube |
| Mouth Wash | 44/- & 27/- | ,, | 1/- | 5/- & 3/- ,, bottle |
| Special Brush | 24/- | per doz. | 2/6 | each |
| Dental Tooth Powder (Large Size) | 18/- | ,, | 2/- | ,, |

Of Wholesalers, or direct from

**ORISAL Ltd., 77 George St., Portman Sq., W.1.**

*Telephone No.: Mayfair 2899.*

**STRODONIA** Vanishing Cream.

NOW SUPPLIED IN

**ALUMINIUM SCREW-CAPPED JARS.**

10½d. size—7/6 doz. 1/3 size—10/6 doz.

**FROM LONDON WHOLESALERS.**

Direct orders value £5, subject to 1 doz. 1/3 size Bonus for window display and 5% discount cash, one month; £2/10/0 subject to ½-doz. 1/3 size Bonus for window display, net.; £1/10/0 subject to ¼-doz. 1/3 size Bonus for window display, net. Carriage paid on £1/10/0 upwards.

**STRODE COSH & PENFOLD, Broadmead, BRISTOL.**

# BETTER SOAPS-BETTER PROFITS

**"SAPON" SOAPS** represent the only great advance in soap chemistry for more than **100** years.

WE ARE IN NO WAY CONNECTED WITH ANY COMBINE OF SOAP MAKERS.

*Write for Price List, or Phone 934 Bank.*

**SAPON SOAPS LTD.,** LONDON BRIDGE, E.C. 4.

FIRST, AND STILL FIRST

THE BOX
MAY BE COPIED
BUT THE
CONTENTS ARE MATCHLESS.

YOU WANT THE BEST
FOR YOUR CUSTOMERS.

THE ORIGINAL DAINTY HINGED

*ALUMINIUM BOXES*

WITH FULL DIRECTIONS.

*PER* **5/-** *DOZEN.*

3 dozen at 4/9.

Manufactured by

**SOLPORT BROS., LTD.**

184-190 Goswell Road, LONDON, E.C. 1

Obtainable through all Wholesale Houses.



**Effective, Showy, and Very Saleable**

# Losall's - - Ball-Room Floor Polish

For quickly producing a perfect Polish on Floors for Dancing.

Handsome three-coloured Enamelled Tin, Perforated Top.

P.A.T.A. 1/6 Per Dozen, 13/6

**LOFTHOUSE & SALTMER, Ltd.**

Wholesale and Export Drug Merchants and Manufacturing Chemists,

**HULL.**

# REDUCED PRICES.

## Toilet and Medicinal Preparations packed in Collapsible Tubes.

### *TOILET PREPARATIONS.*

| | ½ oz. | 1 oz. | 2 oz. | |
|---|---|---|---|---|
| Cold Cream ... ... ... | 2/8 | 4/- | 5/9 | doz. |
| Glycerine & Honey Jelly... ... | 2/10 | 4/4 | 6/2 | „ |
| Oatmeal Cream ... ... ... | 3/1 | 5/- | 7/- | „ |
| Shaving Cream ... ... ... | — | 9/- | — | „ |
| Toilet Lanoline ... ... ... | 2/8 | 4/- | 5/9 | „ |
| Solid Brilliantine ... ... ... | 2/10 | 4/4 | 6/2 | „ |
| Vanishing Cream... ... ... | 2/8 | 4/- | 5/9 | „ |

### *MEDICINAL PREPARATIONS.*

| | ½ oz. | 1 oz. | 2 oz. | |
|---|---|---|---|---|
| Blue Ointment ... ... ... | 5/2 | 8/9 | 15/9 | doz. |
| Boracic „ ... ... ... | 2/10 | 4/4 | 6/2 | „ |
| Calomel „ ... ... ... | 4/10 | 8/– | 14/– | „ |
| Capsicum „ ... ... ... | 3/2 | 4/10 | 7/– | „ |
| Sulphur „ ... ... ... | 4/– | 6/2 | 10/6 | „ |
| Zinc „ ... ... ... | 3/10 | 5/6 | 9/3 | „ |
| Borated Petroleum Jelly ... ... | 3/2 | 4/10 | 7/– | „ |
| Capsicum „ „ ... ... | 3/4 | 5/– | 7/8 | „ |
| Carbolized „ „ ... ... | 3/2 | 4/10 | 7/– | „ |

*Customer's name FREE on 3 dozen of any one preparation.*

**BONUS.**—With an order for 2 gross assorted Preparations, we will give a bonus of 1 dozen 1-oz. tubes of any Toilet Preparation.

**DO NOT FAIL TO VISIT OUR STAND, H. 53, AT THE BRITISH INDUSTRIES' FAIR, WHITE CITY, FROM FEBRUARY 21st TO MARCH 4th.**

*Telephone:* HOP 4170 (2 lines).

WILLIAM TOOGOOD LTD
77, SOUTHWARK ST
LONDON, S.E.1.

*Telegrams:* "TOOGOOD, BOROH, LONDON."

FOR more than a quarter of a century INGRAM'S MILKWEED CREAM (in fifty-cent and dollar sizes) has been widely used in the United States and Canada.

Encouraged by its popularity, we have added a complete line of medium-priced Toilet Preparations and Perfumes. Since their introduction they have grown mightily in the favour of discriminating women. INGRAM'S MILKWEED CREAM is distinctly different from ordinary face creams in that it possesses a distinct therapeutic action. Those who use it once seldom change.

For the past fifteen years these articles have been successfully sold in Australia, New Zealand, South Africa, Cuba, and in other countries as well. We are now ready to increase our foreign trade, and are looking for live representatives in British Colonies who will co-operate with us by carrying reasonable stocks on the understanding that we will advertise in their field and adopt for them the same methods that have been so successful elsewhere.

Operating a branch laboratory in Canada, we are particularly well fitted to serve other British countries on account of preferential tariffs and the better exchange situation.

If you are interested in representing such a house in your territory and want to examine this line, send us Toronto or Montreal exchange for seven dollars and a half, and we will send you by prepaid insured parcel post a representative assortment. We feel sure that an examination will convince you of their saleability in your territory, and that our proposition will interest you.

Also at WINDSOR, Ontario, Canada.

**FREDERICK F. INGRAM CO.** (ESTABLISHED 1885)

1567 Lafayette Boulevard, Detroit, Michigan, U.S.A.

EXPORT DEPARTMENT: 1227 BROADWAY, NEW YORK CITY.

Cable Address: "DEVELOSALE N.Y." All standard Codes used.

"Newbery's"

FRANCIS NEWBERY & SONS LTD

COMPLETE RANGE OF

Packed Pharmaceuticals,
Toilet Preparations,
"Own Name" Packed Goods.

SUNDRIES—

Best British Tooth Brushes, Hair Brushes, and Shaving Brushes. Mirrors, Manicure Requisites, etc.

FRANCIS NEWBERY & Sons, Ltd.
LONDON & CARDIFF.

'RECAMIER' Toilet Productions.

ACKNOWLEDGED TO BE UNIQUE

*Chemists can recommend them with confidence, and they carry a good profit.*

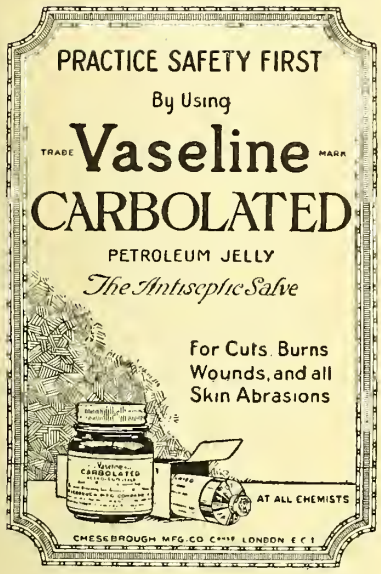
*Enquiries Invited.*

PRICES:

Crème Recamier, 1/6, 3/- and 5/6
Savon Recamier, 1/3 tab., 3/6 3-tabs.
Crème de la Harem, 1/3, 2/6 and 4/6
Special Face Powder, 1/6 and 2/6

*We will supply Chemists with a Few Samples and Counter Literature Gratis.*

Recamier Toilet Products Co.
4 ST. JAMES'S STREET, LONDON, S.W.1




TO HELP YOUR SALES OF

# "VASELINE" CARBOLATED

## PETROLEUM JELLY.

This advertisement will appear during March and April in forty-seven of the principal magazines and periodicals, having a combined circulation of more than **12,000,000.**

**This preparation is unequalled for cuts, wounds, skin abrasions, etc.**

| | M.W. | M.R. |
|---|---|---|
| No. 1 size tubes ... | 11/- per doz. ... | 1/3 |
| No. 2 „ „ ... | 18/- „ „ ... | 2/- |

Also packed in 2-oz. bottles (Blue Seal Carbolated) at **8/6** per dozen.

**OTHER SEASONAL "VASELINE" PREPARATIONS.**

**"Vaseline" Eucalyptol** for influenza, colds in the head.

**"Vaseline" Mentholated** for headaches, neuralgia.

**"Vaseline" Capsicum** for chest colds.

**"Vaseline" Camphor Ice** for rough chapped hands and skin.

*Price List will be sent on application.*

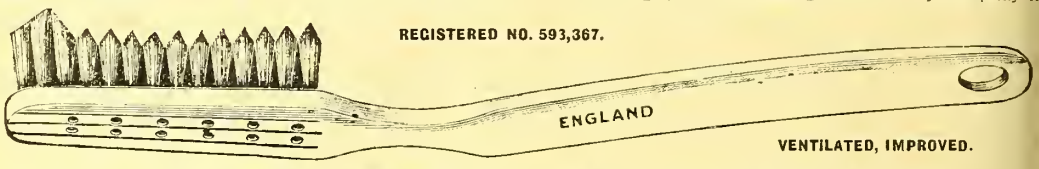
**Chesebrough Manufacturing Co.,**
**42 Holborn Viaduct, E.C.1.**

# ROBERT ADDIS & SON,

— Tooth Brush Manufacturers, —
London Brush Works, London Fields, E.8.

## The "ASEPTIC" or "PROPHYLACTIC."

When not in use, a Tooth Brush should not be allowed to remain wet, or it becomes offensive. The advantage of this Brush is—it can be hung up to drain, allowing the air to dry and purify it.




*To be obtained from Wholesale Houses. Packed in cartons, facilitates sales and ensures brush reaching user in clean and antiseptic condition.*

# CHEMISTS' GUMMED LABELS IN ROLLS

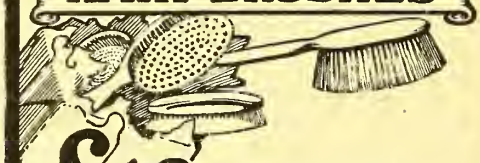
CHEAPEST HOUSE IN THE TRADE FOR ALL KINDS OF SMALL GUMMED LABELS.
Send for full particulars to
DAVID CHALMERS & CO., Ltd., 18/20 Kentish Town Rd., Camden Town, LONDON, N.W.1

# HALIFLOR

FLORAL ESSENCES AND OILS
FOR MAKING QUADRUPLE PERFUMES
AND PERFUMING BRILLIANTINES.
Samples and Prices from the Sole Makers
HERTZ & CO.,
9 MINCING LANE, LONDON, E.3.
Laboratory: 20 Bevis Marks, E.C.3.

# BIDWELLS

## HAIR BRUSHES



£12 PARCELS

Fancy Wood and Bone
NAIL BRUSHES
£3 PARCELS.

Factories: AXMINSTER, DEVON.

On the P.A.T.A.

| | No. 522. | No. 523. | No. 519 (Child) |
|---|---|---|---|
| Wholesale, per dozen | 20/- | 23/6 | 12/- |
| Retail Price, each ... | 2/6 | 3/- | 1/6 |

Stocked by all Wholesale Druggists' Sundriesmen

THIS SHOWCASE SUPPLIED FREE WITH EACH 3 DOZEN.

# COMBS

### LADIES' DRESSING COMBS.

| No. | | Size. | Per Doz. |
|---|---|---|---|
| 184 | Black, non-inflammable ... | $7\frac{1}{2} \times 1\frac{1}{2}''$ | 8/0 |
| 185 | ,, celluloid ... ... | $8 \times 1\frac{3}{4}''$ | 9/6 |
| 118 | ,, vulcanite ... ... | $8 \times 1\frac{3}{4}''$ | 10/6 |
| 121 | ,, celluloid, burr grailed | $7\frac{1}{2} \times 1\frac{1}{4}''$ | 13/0 |
| 116 | Shell, ,, ,, | $7\frac{1}{2} \times 1\frac{1}{4}''$ | 13/0 |
| 195 | Black vulcanite ,, | $8 \times 1\frac{3}{4}''$ | 15/0 |
| 168 | White celluloid ,, | $7\frac{1}{2} \times 1\frac{1}{4}''$ | 18/0 |
| 107 | Black ,, ,, | $8 \times 1\frac{3}{4}''$ | 21/0 |
| 106 | White ,, ,, | $8 \times 1\frac{3}{4}''$ | 26/0 |
| 188 | Black ,, ,, | $8 \times 1\frac{3}{4}''$ | 27/0 |

### SMALL TOOTH COMBS.

| | | | |
|---|---|---|---|
| 174 | White, celluloid ... ... | $3 \times 1\frac{3}{4}''$ | 4/6 |
| 169 | ,, non-inflammable ... | $3\frac{1}{4} \times 1\frac{3}{4}''$ | 6/0 |
| 170 | Horn ,, ,, ... | $2\frac{3}{4} \times 1\frac{3}{4}''$ | 7/0 |
| 178 | Black ,, ,, ... | $3\frac{3}{4} \times 1\frac{3}{4}''$ | 7/0 |
| 177 | Blonde ,, ,, ... | $3\frac{1}{2} \times 2''$ | 7/6 |
| 176 | White ,, ,, ... | $3\frac{1}{2} \times 2''$ | 7/6 |

### LADIES' RAKE COMBS.

| No. | | Size. | Per Doz. |
|---|---|---|---|
| 167 | White celluloid, burr grailed | $6\frac{1}{2} \times 1\frac{1}{4}''$ | 12/6 |
| 119 | Black ,, ,, | $8 \times 1\frac{1}{2}''$ | 13/0 |
| 209 | ,, ,, ,, | $7\frac{1}{2} \times 1\frac{3}{4}''$ | 15/0 |
| 196 | ,, vulcanite ,, | $8 \times 1\frac{3}{4}''$ | 15/0 |
| 115 | White celluloid ,, | $7\frac{1}{2} \times 1\frac{3}{4}''$ | 20/0 |
| 117 | ,, ,, ,, | $7\frac{1}{2} \times 1\frac{1}{2}''$ | 21/0 |
| 174 | ,, ,, ,, | $8 \times 1\frac{3}{4}''$ | 27/0 |
| 189 | Black ,, ,, | $8 \times 1\frac{3}{4}''$ | 27/0 |

### LADIES' HANDLE COMBS.

| | | | |
|---|---|---|---|
| 104 | Black celluloid, burr grailed | $8 \times 1''$ | 18/6 |
| 105 | White ,, ,, | $8 \times 1''$ | 21/0 |
| 216 | Black vulcanite ,, | $8\frac{1}{2} \times 1\frac{3}{4}''$ | 24/0 |

### GENTS' COMBS.

| | | | |
|---|---|---|---|
| 165 | Black celluloid ... ... | $6\frac{1}{2} \times \frac{7}{8}''$ | 6/6 |
| 144 | ,, vulcanite ... ... | $7 \times 1''$ | 7/6 |
| 143 | ,, ,, stout ... | $7 \times 1''$ | 8/6 |
| 140 | White celluloid ,, ... | $7 \times \frac{7}{8}''$ | 8/6 |

A discount of 5 % for prompt cash is allowed on all amounts of 10/- and upwards. Money returned if goods are not satisfactory. Write for illustrated PRICE LIST, post free for the asking.

**BURGE, WARREN & RIDGLEY, Ltd.**

**91 & 92 GREAT SAFFRON HILL——LONDON, E.C.1.**



# A Plain Talk to Business Men

Because you are a practical business man you realise that you must buy in the best market. Business to-day demands keen buying. The public look for prices to drop, and in order to sell cheaper you must buy cheaper. We ask you to consider our offers. We know the goods are right and ask you to compare our prices with what you paid before. Replenish your stocks at *our* prices.

## DUST COMBS

GALALITH: black, white and blonde.

| | R. $2\frac{1}{2} \times 1\frac{1}{4}$ | A. $2\frac{3}{4} \times 1\frac{5}{8}$ | B. $3 \times 1\frac{3}{4}$ | C. $3\frac{3}{8} \times 1\frac{7}{8}$ | |
|---|---|---|---|---|---|
| 22-cut... | 30/- | 34/- | 36/- | 38/- | per gross |
| 25 ,, ... | 33/- | 36/- | 39/- | 42/- | ,, |
| 30 ,, ... | 45/- | 47/6 | 49/- | 51/- | ,, |
| 35 ,, ... | 47/- | 49/- | 51/- | 54/- | ,, |

IVORY BLACK **HANDLE COMBS** ... ... 144/- per gross; ... ... 102/- ,, ,; 5-gross lots 90/- ,, ,,

**VERNON POWELL, LTD.**

**& 10 ST. ANDREW'S HILL, LONDON, E.C.4**

Wholesale and Export.



*Wholesale and Export ONLY.*

# COMBS

DRESSING - RAKE - TOOTH

Write for Samples and Quotations for immediate delivery.

**J. A. BROTHERS,**

17/18 Chapel St., Whitecross St., London, E.C.2

Phone: CITY 5521.



ESTABLISHED 1889

*SEND FOR*

# GOLD CORD

*TO*

**R. LECONTE & CO.** *CAPPING MATERIALS SPECIALISTS.*

**7 & 8 South St., Finsbury, London, E.C. 2**

Phone: CLERKENWELL 1588. Wires: "ETNOCEL, AVE, LONDON."

**WHOLESALE & EXPORT ONLY.**

**SUPPORT HOME INDUSTRY.**

No. 1.

# Shaving Mirrors

MANUFACTURED BY

# HUKIN & HEATH

LIMITED,

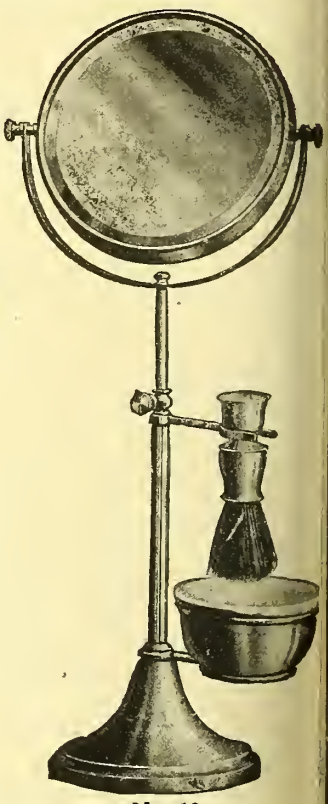
**BIRMINGHAM.**

*In many varied Designs.*

UNEXCELLED IN

**FINISH, DURABILITY & VALUE**

***PROMPT DELIVERY.***



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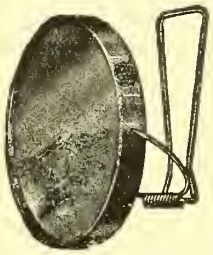

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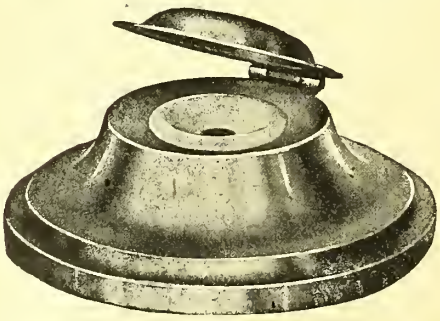
## INKSTANDS AND ASH TRAYS



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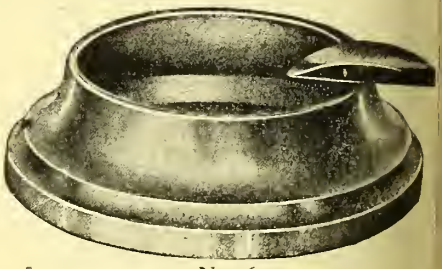
FINISHED IN NICKEL, SATIN, OR POLISHED BRASS, OR ANTIQUE



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SHOWROOMS: **19 Charterhouse St., London, E.C.1.** **Phones:** HOLBORN 1226. CITY 6113 & 6114.

FACTORY: **Imperial Works, Gt. Charles St., Birmingham.** CENTRAL 1707 & 1708.

**WHOLESALE & EXPORT ONLY.**

# Baby Rules the Roost!

## A Happy Baby!
## A Happy Mother!!
## A Happy Home!!!

An ideal condition, but no miracle about it. Simply the effect of an

# "EVERSAFE" PACIFIER.

The one Pacifier that makes Baby really Happy. It looks so fresh and crisp and lustrous, and is so soft and really so soothing, so remindful of Mother!

And as to Mother—she knows it is safe. No fear of a teat pulling off—no danger on that account.

Those who have sold it speak well of it, also from the point of view of sales value as a bringer of repeats and incidental business. It sells itself, is profitable—and the price is protected.

Messrs. Henry Hodder & Co., Ltd., the well-known West of England Chemists, asked their opinion, kindly gave it as follows (published with permission):

"It gives us pleasure to state that we have purchased considerable quantities of this unique Soother since its introduction, and the fact that we have never received a complaint from a retail purchaser during the whole period would prove beyond a doubt that the Soother has been eminently satisfactory in use, and has proved a comfort to some thousands of mothers as well as to the 'tiny mites' soothed by its aid.

The 'Eversafe' Soother has always been assorted in our stock with those of other manufactures, but the general appearance of the 'Eversafe,' coupled with the quality of the rubber used and its undoubted reliability, have been the factors which have resulted in satisfaction to ourselves as retailers and yourselves as manufacturers.

In sending you this expression of our opinion of the merits of the 'Eversafe' Soother we venture to hope that the sales will continue to increase in the future as in the past.

(*Signed*) HENRY HODDER & CO., LTD. E. CARPENTER, *Managing Director.*"

*N.B.—Free Samples and Terms on application to your Wholesale House, or to—*

**F. SCHUTZE & CO., Ltd.** Manufacturers of Druggists' Sundries,

**Caledonian Market - - LONDON, N.7.**

# SPECIAL TRADE NOTICE.

TEASDALE'S
ORIGINAL
**Chlorodyne**
Which does ***not*** require the customer's signature on purchase.

Prof. O'Phelps Brown's
NATURE'S
**Herbal Remedies**

**Dr. Lane's Catarrh Cure**

**Warnol Preparations For the Hair**

**Keenolia Toilet Preparations**

ARE PREPARED AT THE LABORATORIES OF THE PROPRIETORS:

TRADE CASSON BRAND MARK

**The Casson Chemical Company Ltd.,**
*WESTBOURNE HALL, W.2.*

*For Export and Wholesale Prices apply to 44a WESTBOURNE GROVE, W.2.*
*General Supplies may be obtained from all the Leading Wholesale Patent Medicine Houses.*

Telephones: Park 2884, 3568, 4287.

# 5% Bovril Bonus

## THE PRESENT SCHEME CLOSES 28th FEBRUARY

The New Scheme for 1921 to 1922 will commence on the 1st March, and will be on exactly the same lines as the scheme now closing.

*For full particulars of trade terms apply to: Bovril, Ltd., 148-166, Old St., London, E.C.*

BOVRIL

# CONVINCING PROOF of

*No other preparations in the Wo*

# ALKIA SALTRATES &

**The acme of perfection in Salines. Nothing better for Liver, Kidney, Stomach, Blood and Intestinal disorders.**

Protected on P.A.T.A. at the full face value of **3/3** a large bottle.

## A FEW OF THE

**OF ALKIA SALTRATES AD**

**who have written us praising t**

**HORATIO BOTTOMLEY**
*Eminent Statesman and Editor.*
**GEORGE ROBEY**
*World-Famous Comedion.*
**SIR HARRY LAUDER**
*Famous Scotch Comedian.*
**A. F. (Peggy) BETTINSON**
*Founder & Mangr. Nat. Sporting Club.*
**EUGENE CORRI**
*World-Famous Referee.*
**G. H. HOGSFLESH**
*Official Handicapper A.A.A.*
***JIMMY WILDE**
*World's Champion Boxer.*
**GEORGES CARPENTIER**
*Heavyweight Champion of Europe.*
**BILLY (Bombardier) WELLS**
*Famous Heavyweight.*
**JOE BECKETT**
*Heavyweight Champion of Great Br*
**FRED FULTON**
*Renowned Heavyweight.*
**EDDIE McGOORTY**
*World-Famous Middleweight.*
**JIM SULLIVAN**
*Ex-Middleweight Champion of Eng*
**JOHNNY BASHAM**
*Welterweight Champion of Europ*
**YOUNG HEALY**
*Well-known Featherweight.*
**T. DESCAMPS**
*Trainer & Mangr. to Geo. Carpen*
**TED LEWIS**
*Trainer and Manager to Jimmy W*
***TOM PAYNE**
*Champion Walker.*

*The stars (*) above indicate famous athletes w*

## ALKIA SALTRATES

**A widely advertised and quick selling product, wh represents the maximum of possible efficiency in a sali and the best value obtainable for the money. Beg highly concentrated, exceptionally small doses e sufficient, and there is no trace of any salty or ot unpleasant taste.**

### *YOU CAN STOCK THESE GOODS ON GUARANTEED SALE TERMS.*

Carriage paid in United Kingdom on orders for 3 dozen, which may be assorted. Handsome showcards of strong selling power sent free on request. Display them in your window, and attract extra business from our present extensive advertising campaign.

# SUPERLATIVE MERIT

*...e ever received such praise as*

# REUDEL BATH SALTRATES

...est of all bath preparations, either for medicinal or for general ...e use. Banishes corns, stops pain, softens water, clears the skin.

## ...OMINENT USERS

...L BATH SALTRATES

...s in the highest possible terms.

...L. ...SS
...n Walker.
...HO...ON
...n Walker.
...D...ALDSON
...n Sprinter.
...AR...EGARTH
...n Sprinter.
...G. ...ICE
...n Runner.
...RED ...RUBB
...n Runner.
...W. H...
...n Runner.
...DEA...
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...EST ...RRY
...World Champion Sculler.

*ALFRED FELTON
*World's Ex-Champion Sculler.*
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*Cambridge Coach for 30 years.*
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ARTHUR NIGHTINGALE
*Famous Jockey and Trainer*
*W. J. BAILEY
*World's Champion Cyclist.*
*HARRY MARTIN
*World's Champion Motor-Cyclist.*
J. B. HOBBS
*Famous All-England Cricketer.*
*PETER LATHAM
*Professional Tennis Champion.*
ABE MITCHELL
*The Great Golfer.*

*...or ...t holders of World's Championships.*

## ...EUDEL BATH SALTRATES

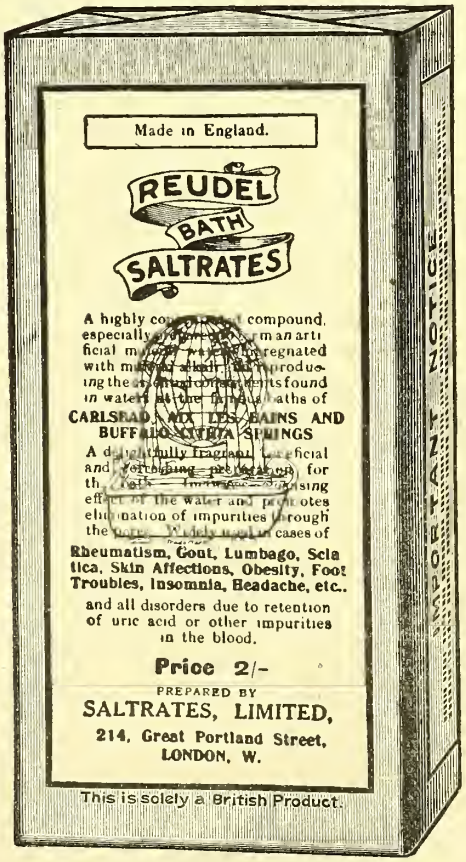
...e ...st selling and most fragrant, refreshing, ...nefi...al and all-round satisfactory preparation for ...e bath or for general toilet purposes.

...spec...lly recommended in cases of foot trouble or ...eum...tic pains, stiffness, etc. Now being extensively advertised.

***We ...an guarantee immediate delivery ...f orders for any quantities.***

We ...re fortunate in being able to announce that fores...t shown in the laying-in of very heavy stocks of s...plies in anticipation of the shortage which after...rds developed, ***still enables us to gu...rantee full and prompt delivery of ...rders for any quantities.***

## In Two Sizes. Half-pound and one-pound Packets.




Protected on P.A.T.A. at the full face values of **2/-** and **3/3**.

# Collapsible Tubes

SERVICE.
QUALITY.
PRICE.

FOR THE BEST GO TO BETTS'.

**Best Service. Best Quality. Best Price.**

*NOW! is the Wise Buyers' Opportunity.*

**Betts & Co. Ld.**
**1. Wharf Rd., City Rd.**
**London. N.1.**

Established 1857



# SAFETY FIRST

*NO* DAMAGE. *NO* PILFERAGE.
DURING TRANSIT.

When your goods are packed in

## CORRUGATED CONTAINERS

Manufactured by

**CONTAINERS, LIMITED**

Makers of Corrugated Paper in rolls also wraps for bottles and jars.

*Head Office,*
**50 SOUTHWARK BRIDGE ROAD**
**LONDON, S.E. 1.**

*Works:* **THATCHAM, BERKS.**



# When you buy CORKS

Ask yourself this question: Are they ***guaranteed?*** If not, stop and think. Corks without a name are like silver without the hall-mark. You buy in the dark—and there's no need. This sign protects you.

PYRAMID
TRADE MARK

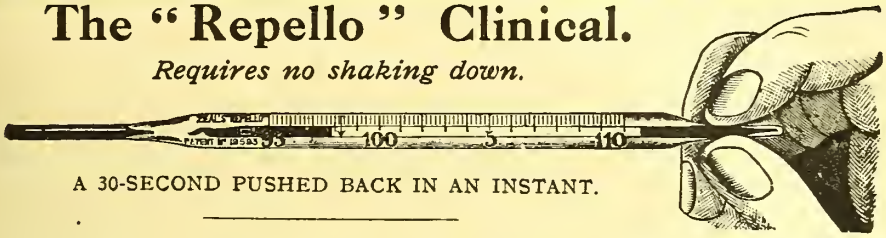
You *know* if the parcel carries this mark it means performance in the pharmacy. You *know* the Corks are guaranteed. You *know* you are protected. Why take any risk? Order Pyramid Corks and know before you buy that there's nothing better at the price—anywhere.

**N. W. Mitchell & Sons, Ltd**
*"The Cork Firm,"*
**Limehouse, London, E.14.**

# ZEAL'S Thermometers

## The "Repello" Clinical.

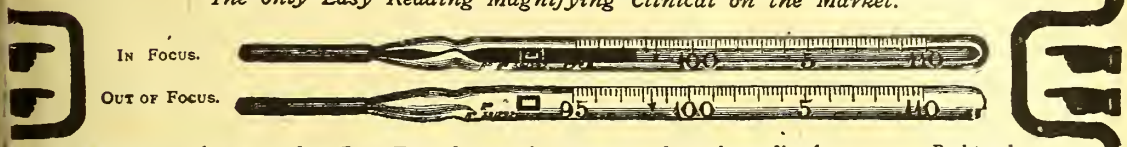
*Requires no shaking down.*



A 30-SECOND PUSHED BACK IN AN INSTANT.

## New Improved Lens Finder.

*The only Easy Reading Magnifying Clinical on the Market.*




The square mark engraved on Lens Front locates the mercury column immediately.
SPECIAL AWARD & GOLD MEDAL, NEW ZEALAND, 1907. SILVER MEDAL, INDIA, 1909. SILVER MEDAL, LONDON, 1913.
*All Clinical Thermometers are N.P.L. tested.*

Registered Trade Z Mark

Telegrams: "ZEALDOM, SMITH, LONDON."
Telephone No.: CENTRAL 12438.

**G. H. ZEAL,** Wholesale Manufacturer of Clinical Thermometers. Estd. 1888.
82 TURNMILL ST., LONDON, E.C. 1



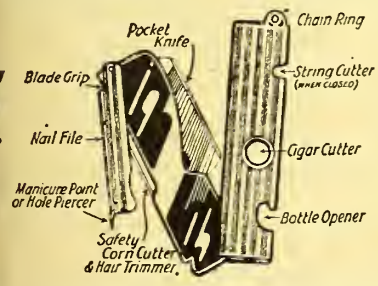
RITISH INDUSTRIES FAIR LONDON STAND J 6a.

*ncrease your Business by Stocking*

The BRITISH IROUGHOUT. **JIGGER** PATENT

Patents granted or pending in all countries.

## POCKET KNIFE

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Takes any type of old Safety Razor Blade.

R.H. THE PRINCE OF WALES JIGGER.

This ingenious little article . . . can be put to over 2 ifferent uses. The Prince, at the White City, accepted a s r Jigger."—*Sunday Pictorial*, Jan. 9, 1921.

FROM ALL WHOLESALERS.

*Sole Manufacturers*
**WATSON, SON & CO.**
70a Basinghall Street, LONDON, E.C. 2.



# "POSTLIP"
(No. 633 Mill)
## ENGLISH FILTER PAPERS

Manufactured in
**Annually Increasing Quantities**
for upwards of 50 years.

White and Grey Plain. Antique, Crinkled, and Embossed.

All sizes in Squares, Circles, and Folded Filters. Rolls made to order.

**Several new Grades are now successfully replacing the best German makes.**

See Report of TESTS made by the National Physical Laboratory, a copy of which will be sent on application.

*Ask your Laboratory Furnisher for samples of "Postlip" Filter Papers.*

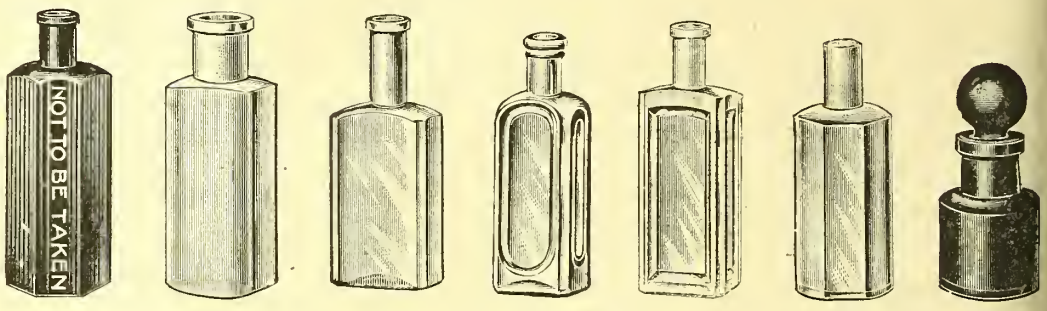
**EVANS, ADLARD & CO., LTD.**
*POSTLIP MILLS,*
WINCHCOMBE, R.S.O., GLOS., ENGLAND.

# Ludford & Co.

**Brooksby's Walk - - HOMERTON, LONDON, E. 9.**

## GLASS BOTTLES

MADE EXCLUSIVELY BY BRITISH LABOUR.




ALL KINDS, FOR ALL PURPOSES, IN ALL COLOURS.
PLAIN OR STOPPERED.

**Specialities: SCREW TABLETS & AMBER BOTTLES.**

Telephone: DALSTON 587. Telegrams: "LUDFORDIA, HACK, LONDON."

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ESTABLISHED 1900.

## CULINARY HERBS, RUBBED MINT, PARSLEY, THYME, SAGE, etc. etc.

CULINARY HERBS OUR SPECIALITY

**Wholesale and Export Only**

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Tilney St. Lawrence, KING'S LYNN.

ESTABLISHED 1839.

## CHEMISTS' OVERALLS

**From GARDINER & CO.**

We supply protective overalls in any colour or style required. They are made by experienced hands for all branches of the Chemical trade

KHAKI DRILL - 12/6, 16/11, 18/6, 21/6, 26/6
WHITE DRILL - 17/6
BLACK DRILL - 18/6
HOLLAND DRILL - 19/6

Sizes 34, 36, 38, 40, 42 and 44 inches over waistcoat.
SPECIAL QUOTATIONS FOR QUANTITIES.

**GARDINER & CO. (THE SCOTCH HOUSE) LTD.**

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Teleg.: "Durastyle, Phone, London." Phone: Av. 6650 (4 lines)

## LOVATT & LOVATT, Ltd.

**The Pottery, Langley Mill, near NOTTINGHAM**

**Makers of**

## STONEWARE BOTTLES and JARS

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NON AURI SED OCULO

# RAPHAEL'S LTD.

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# "Opsilus Korneascope"

**An Achromatic Combination giving a Perfectly Flat Field on a Curved Surface.**

***This little instrument has been designed, and is indispensable for a careful examination of any curved surface such as the Cornea and Sclerotic of the Human Eye.***

**FITTED IN A VULCANITE MOUNT AND CASE COMPLETE.**

**Magnification, 8 diameters.**

WHOLESALE ONLY

We Specialise in the Manufacture of

# GLASS STOPPERED BOTTLES

for

**Perfumes, Chemicals, Spirits, etc.**

Stoppering Guaranteed.
Prompt Delivery.

MOULDS for Special Shapes made at these Works.

*Samples and Prices on Application.*

**John Dowell & Sons (Glass Bottle Manufacturers) Ltd.,**

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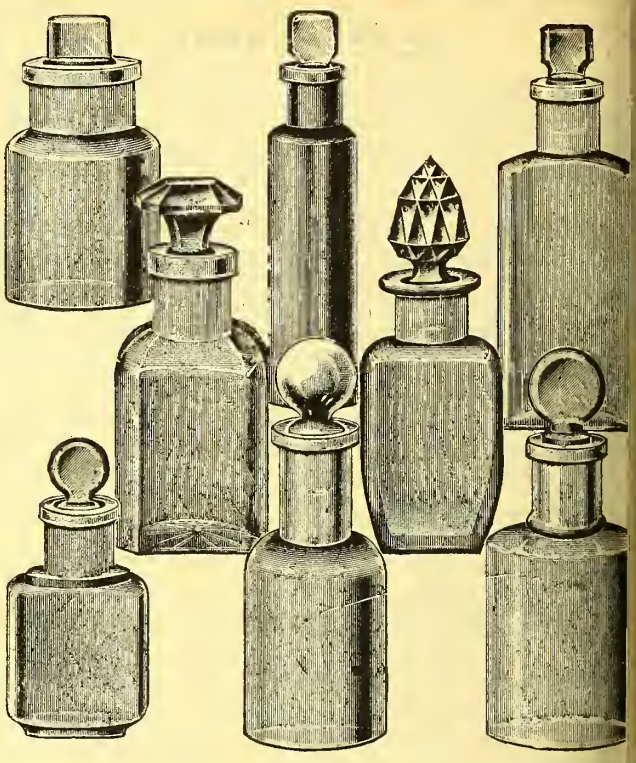
Tel. No.: Dalston 2219.
Tel. Add.: "Acetized, Hack, London."



MEDICINAL

# GELATINE CAPSULES

**Blaud Pill**
**Castor Oil**
**Cod Liver Oil**
**Balsam Copaiba**
**Sandalwood Oil**

etc. etc.

INQUIRIES INVITED.

**JOHN TYE & SON,**
**457 Caledonian Road, LONDON, N. 7.**

# GLASS BOTTLES

YORKSHIRE MAKE

GRAD. MEDICALS
PANELS, POISONS
MEXICANS, LIMES
INKS, BRILLS, &c.

*In White Flint, Pale Green, Actinic or Amber.*

Cheapest House in the Trade

*PROMPT DELIVERIES.*

**WM. BORTHWICK**
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Tel. Add.: "Borthwick Hull."
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*The* **W** *Brand of Hand-Moulded*

# BOTTLES

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*Free from dangerous "frosted glass."*

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*Finest Quality Dispensing Bottles, Poisons, Cheltenhams, Chest Squares, Shop Rounds, and Bottles for Proprietary articles, in various colours. Feeding Bottles and Sterilizing Milk Bottles in Heat - Resistant Glass.*

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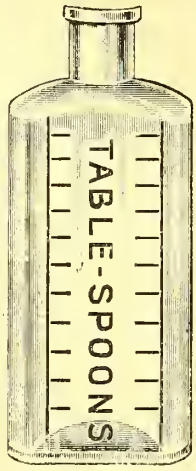
STERILIZING MILK BOTTLE.




DISPENSING BOTTLE.

*Wholesale only—*

**WOOD BROS. GLASS CO. LIMITED,**

*(Established 1828)* BARNSLEY, ENGLAND.

VISITORS TO THE

**BRITISH INDUSTRIES FAIR**

*are invited to inspect the samples of*

# GLASS BOTTLES ON STAND B 20

(GLASS & POTTERY SECTION) OF

**THE AMALGAMATED GLASS BOTTLE WORKS LTD.**

**Treby Street, Mile End, E. 3.**

# C. MELIN & CO.

ESTABLISHED 1865.

*7 India Street, Crutched Friars, London, E.C.3*

**supply GLASS AMPOULES, TUBES, and LAMP BLOWN ARTICLES**

OF EVERY DESCRIPTION. PROMPT DELIVERY.

**IRECT FROM THE WORKS :: WHOLESALE & EXPORT.**

# It saves the udder

and cures caked bag if you apply

**TIPPERS**

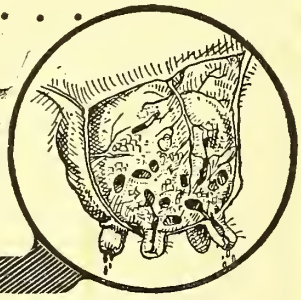
**COWS**

**RELIEF**

at the outset.
Also cures sore teats & relieves garget.

8/9 16/9 25/6 per tin.

**B.C.TIPPER & SON.**
**BIRMINGHAM.**



**WHOLESALE TERMS.**

*Selling prices as above.*
20 % discount off Invoice.
Prices, **8/9, 16/9, 25/6**

Carriage paid on orders 40/- net. Assorted sizes.
Postage charged on small lots.

# DISINFECTANTS

OF ALL KINDS.

Disinfecting Fluid,
Co-efficient Disinfecting Fluids
Carbolic Acid (LIQUID and CRYSTALS),
Cresylic Acid,
Naphthaline,
Lysol, and
Disinfecting Powders.

**The "KILLGERM" Co. Ltd**
**CLECKHEATON.**

*Telegrams:* "Disinfect Cleckheaton."
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## A POSITIVE PLEASURE TO HANDLE

Mr. A. S. GIBSON, Chemist, Brigg, writes:—
"January 27th, 1921.
"It has been a positive pleasure to handle your proprietary 'Rodine.' It is profitable and easy to sell. I wish everything else was as good."

## "PROFITABLE & EASY TO SELL"

It pays to push "Rodine" and be a "Rodine" Agent. Get it on best terms. Write the Maker—

**HARLEY, *Manufacturing Chemist,***
**PERTH, SCOTLAND.**

BATTLE'S

# WEED KILLERS

LIQUID & POWDER.

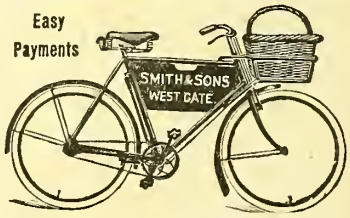
PACKED UNDER CHEMIST'S OWN NAME

*Write for Particulars.*

**BATTLE, MALTBY & BOWER**
Victoria Chemical Works, LINCOLN.

**The finest investment you can have, for e advertisement is worth the cost of the bicy.**

Easy Payments




DUNLOP TYRES

TWO STRO BRAKES

WHEELS 26 × 1¾

*WRITE FOR LIST*

**MOHAWK CYCLE CO., LTD**
**825 ALEXANDRA ROAD, HORNSEY, N.**

# REDUCINE

is extensively advertised and is used by the principal horse-owners in the United Kingdom.

As an incentive to horse-owners to use it—we offer them Free of Charge the expert advice of our Veterinary Surgeon.

*Place your Order Now !*

## The retail price of REDUCINE

**The Great Irish Remedy for Lameness in Horses**

**is now 15/- per tin.**

It was not increased in price during the War because we held large stocks manufactured at pre-war cost. These are now exhausted and we have no option but to increase the price. In future

**The price to retailers will be**

**PER 10/- TIN**

**which leaves you a profit of 50 % on your outlay.**

There is a big demand for Reducine and you will find it a very profitable line to carry.

Your usual wholesaler can supply you. If you have any difficulty in obtaining supplies, or if you require showcards, etc., write to the manufacturers—

REDUCINE CO., 45 STORE ST., DUBLIN.

**Continuous and Steadily Advertised Goods FOR DESTROYING RATS AND MICE**

## DANYSZ VIRUS

| Retail Prices (protected). | | Net Wholesale Prices. |
|---|---|---|
| for Rats and Mice, single tube, 2/- | | ... 15/- per doz. |
| 3 tubes, 5/- | | |
| for Mice only - single tube, 1/6 | | ... 9/- „ „ |
| 3 tubes 3/- | | |

Expired tubes returned to us postage paid will be exchanged free of charge.

## Danysz Virus in Liquid Form

| Retail Price. | Wholesale Price. |
|---|---|
| Bottles 6/- each ... ... ... ... ... | 4/6 each |
| „ 4/6 „ ... ... ... ... ... | 3/9 „ |

## HILLER'S EXTRACT OF SQUILL and DANZO RAT KILLER

Discount off Retail Prices 25% Monthly Account, or 33⅓% cash with order.

| | Retail | Monthly a/c | Cash with order |
|---|---|---|---|
| Large tins ... | 10/- | 7/6 | 6/8 |
| „ „ ... | 18/- | 13/6 | 12/- |
| „ „ ... | 80/- | 60/- | 53/4 |

## DANZO BEETLE POWDER

**For destroying Blackbeetles, Cockroaches, Crickets, &c.**

| Retail Prices (protected). | Wholesale Prices per Doz. |
|---|---|
| 3d. ... ... ... ... ... | In boxes of 2 doz. 2/1 |
| 6d. ... ... ... ... ... | „ „ 1 „ 3/8 |
| 1/- ... ... ... ... ... | „ „ 1 „ 7/5 |
| 2/6 ... ... ... ... ... | „ „ 1 „ 18/- |

Danzo Beetle Powder will not deteriorate by keeping.

**CARRIAGE PAID ON ALL ORDERS.**

*To be obtained from*

HILLER LABORATORIES, LTD.,
325 Borough High Street, LONDON, S.E.1
Telegrams: "Virudana, Sedist, London." Telephone: Hop 2717.

## HARVEY'S

Watts' Embrocation, or Curb Bottle.
Aconite Powders.
Worm & Condition Powders.
Watts' Red Lotion.
Hair-Restoring Ointment.
Edos, or Tasteless Purging Powder.

# HARVEY'S Great Remedies for the Horse

*Protected Prices. (P.A.T.A.)*

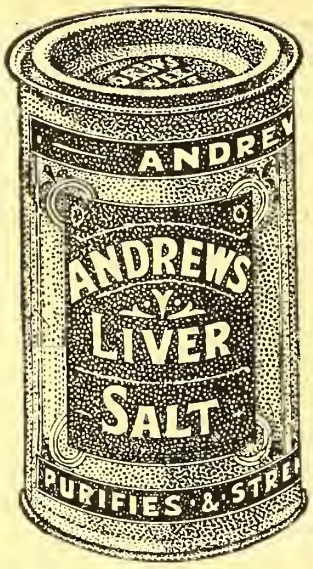
## HARVEY'S

Koppos Powder.
Parasiticide.
Thrush Specific.
Hoof Ointment.
Hair Restorer (Human.)

*Of all the leading Druggists' Sundries Houses.*

**HARVEY & COMPANY, Ltd., Dublin.**

4 OZ. NET 10½d.




8 OZ. NET 1/6

# WARNING!

It is reported that statements are being made by interested persons that since the reduction in price of Andrews' Liver Salt, the tins do not contain the same quantity as before. *This is absolutely untrue*, and the Manufacturers will welcome definite information as to persons spreading such rumours, with a view to legal action being taken.

## EACH TIN CONTAINS THE *FULL* 4-oz. or 8-oz. WEIGHT.

Every tin is carefully weighed before leaving the Works, and is *guaranteed to contain the full 4 ounces, or 8 ounces, as heretofore.* The contents settle down in the tins after filling, but a test *by weighing* will immediately satisfy the consumer that he is getting full-weight.

*The perfection of dryness, and the unique beneficial properties of Andrews' are preserved by its being filled naturally, without being pressed down, and thus having free movement in the tin.*

If any of your Andrews' customers should complain in this way, the simple act of pouring the contents into the scale will demonstrate the *full weight*, and pouring back the contents into the tin will demonstrate the *full bulk*. That is to say, if the Andrews' tin be emptied and refilled *or even shaken*, the bulk will fill the tin, as when originally packed and before "contraction-in-bulk" took place.

**The Proprietors would be grateful to all Retailers of Andrews' for the suggested demonstrative-co-operation, when the need arises, and would also appreciate information which might be helpful in preventing a repetition of these harmful and inaccurate statements.**

## SCOTT & TURNER LTD.

*Manufacturers (Dept. C. & D.),*

**Newcastle-upon-Tyne.**



**Make your shop bright and clean, attracting customers who believe in hygiene.**

***Mirrors & Glass Shelves***

help to a very great extent, and we can supply them in best quality at lowest prices without delay, as the work is done on our premises.

**NO ONE CAN GIVE YOU BETTER VALUE THAN**

## John M. NEWTON & Sons Ltd.

**PLATE & SHEET . . GLASS**

FACTORS.

*Bevellers, Silverers, Brilliant Cutters, Embossers, Benders, Glaziers, &c.*

Makers of—LEADED GLASS, VENTILATORS, REFLECTORS, FRAMED MIRRORS, GLASS TABLE TOPS, &c.

**20, 21, 22 & 23 CHARLES ST., HATTON GARDEN . . . LONDON, E.C.1.**



# BOXES

**For the Chemist, Druggist and Sundriesman**

Send your Sizes or Samples, and we will quote you by return. No order too small. No order too large. We *KNOW* your wants and will fit you.

## J. DAVIDSON,

**98 Shepherdess Walk, City Road, London, N.**

Telephone: North 3747.



**POCKET KNIVES - SCISSORS**

**"Intrinsic" Brand**

BOTANISTS' KNIVES "Intrinsic" Brand

**BRITISH INDUSTRIES FAIR**

**White City, Shepherd's Bush, London.**

***FEBRUARY 21 to MARCH 4.***

A cordial invitation is extended to all interested in high-grade Surgical Knives, Scissors, Razors, etc., to call at STAND No. K13, where a full range of the world-famous "Intrinsic" Products will be on view.

**J. MILNER & CO.,** ORIENT WORKS, MATILDA STREET, **SHEFFIELD.**

"Intrinsic" Brand

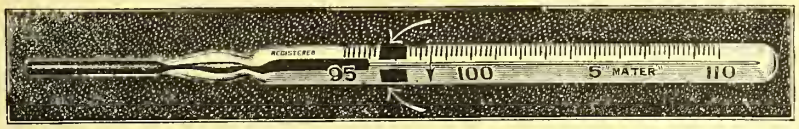
**CORN KNIVES - RAZORS**

# PERKEN'S

## GUARANTEED CLINICAL THERMOMETERS

**The "MATER" Improved Magnifying-front Clinical Thermometer.**

REGISTERED No. 553038




MERCURY COLUMN SEEN AT A GLANCE.
Made in Three Rapidities: Ordinary, 1 Minute & ½ Minute.

X **The "MATER" Clinical Thermometer offers the Pharmacist the largest margin of Profit as Retail Prices are fixed by the** X

## P.A.T.A.

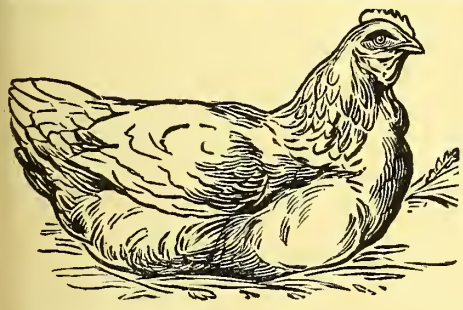
*FULL CATALOGUE of CLINICAL (39 different types) and of THERMOMETERS for all purposes sent FREE on application.*

**PERKEN, SON & CO., Ltd.,** 94 HATTON GARDEN, LONDON, E.C.1.

Established 1852. Telephone: 724 Holborn.

Contractors to H.M. Government. Telegrams: "Optimus, Smith, London."





# Egg Preserving.

**PREPARE FOR - - SEASON'S DEMAND!**

WE pack only the finest quality Water Glass, and give best value and service.

We shall be obliged if our regular customers will write early, so that we can arrange for special advertising, etc., and to any chemist we have not yet supplied we shall be pleased to send full particulars.

## TOMLINSON & HAYWARD, LIMITED, LINCOLN.

*Proprietors of*
- TOMLINSON'S DAIRY HELPS.
- LUDDINGTON'S OILS and VETERINARY PREPARATIONS.
- HAYWARD'S PAINT STICKS, for branding Sheep, &c.

# BAISS BROTHERS & COMPANY, LTD.

TRADE MARK

*Established 1833.*

**SOLID & LIQUID**

# EXTRACTS

All official Extracts are prepared by us in strict conformity with the British Pharmacopœia.

**BAISS' EXTRACTS are the outcome of ninety years' manufacturing experience.**

# EMULSION
*of*
# COD LIVER OIL

Awarded GOLD MEDAL at the last International Congress of Medicine, London.

Price Lists of Drugs, Pharmaceutical Preparations, &c., in various languages.

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## AND COMPANY, LTD.

Wholesale & Export Druggists, Manufacturing Chemists & Makers of Surgical Instruments.

*Contractors to His Majesty's Government; the Crown Agents for the Colonies; various Foreign Governments; and the principal Hospitals and Institutions at Home and Abroad.*

**Grange Works, 174, 175, 176 GRANGE ROAD, BERMONDSEY, LONDON, S.E.1**

# UNITED CHEMICAL AND METALLURGICAL WORKS LTD.

## CARLSBAD, CZECHO-SLOVAKIA.

**PERMANGANATE OF POTASH B.P.**, large & small crystals.

CAUSTIC POTASH
CHLORATE OF POTASH
POTASSIUM AND SODIUM METALS
BARIUM CARBONATE
BARIUM CHLORIDE

FLUORIC ACID 70/75%
FORMIC ACID
BENZOIC ACID EX TOLUOL
BENZOATE OF SODA
FORMATE OF SODA
HYDROGEN PEROXIDE

Sole selling agents for the United Kingdom—

**BROTHERTON - RATCLIFFE & CO., LTD.**

**Winchester House, Old Broad Street, London, E.C.2.**

*Telephone: London Wall 6150.* *Telegrams: "Ebbenzolla, Ave, London."*

# NOTICE TO TRADE.

*ORDER STOCKS OF*

# SWAMP ROOT

*FROM YOUR WHOLESALERS IMMEDIATELY.*

**We are commencing Press Advertising. Do not be out of stock.**

## BONUS OFFER.

With minimum wholesale order of 9 dozen SWAMP ROOT, small, value **£5 7s. 3d.** —or equivalent in larger sizes—1 dozen SWAMP ROOT, small, sent free for displaying our goods with advertising matter.

**NOTE.**—If unable to obtain stocks immediately from your wholesaler, order direct, and we will despatch by return, invoicing through your Wholesale House.

**AMPLE STOCKS ALL SIZES NOW AVAILABLE.**

**KILMER & COMPANY, Marylebone Road, LONDON, N.W. 1.**

TELEGRAMS: "Refreshing, Cent, London."

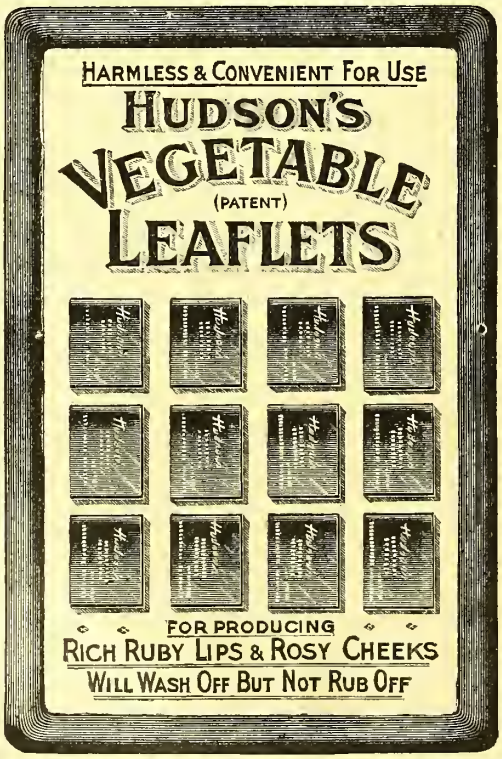
TELEPHONE: Central 4461-4462.

# No. 4711. Eau de Cologne

Write for Prices and Terms to *SOLE IMPORTER:*

Supplies available from London Stock, *Duty Paid.*

**R. J. REUTER, 69 Carter Lane, LONDON, E.C. 4**




## HUDSON'S Vegetable Leaflets

***Wholesale,* 45/- per gross, subject.**
***Protected Retail Price,* 6d. each.**

WRITE FOR PARTICULARS OF

***Special Bonus Scheme***

FOR WINDOW DISPLAY

TO WHOLESALE DEPOT—

**R. J. REUTER,**

69 CARTER LANE,
LONDON - E.C. 4

# You can always rely on

TRADE MARK 'TABLOID' BRAND

# Aspirin

**Beware of fraudulent Aspirin Tablets.**

I

The United States Government ordered the destruction of 25,000 tablets of alleged "acetylo-salicylic" acid. Analysis showed the tablets contained no acetyl-salicylic acid, and consisted of milk sugar, starch, mineral matter **and 6·91% acetanilide.**

II

In a second prosecution, of products claimed to contain 5 grains of Aspirin, one batch contained 4·11 grains, and another only 3·21 grains.

III

In another case, forty-eight packages of tablets purporting to be compressed Aspirin were found to consist mainly of milk sugar and mineral matter, and to contain **no acetyl-salicylic acid whatever.**

Prepared with the greatest scientific care from acetyl-salicylic acid of exceptional purity.

Free from tartaric acid or other agent designed to mask the B.P. test for free salicylic acid. Contains no boric acid, no talc, no harmful ingredient whatsoever.

Contains the full stated weight of the pure medicament.

*'Tabloid' Aspirin, gr. 5 and 0·5 gm. bottles of 25 and 100*

BURROUGHS WELLCOME & CO., LONDON
NEW YORK MONTREAL SYDNEY CAPE TOWN MILAN
SHANGHAI BUENOS AIRES BOMBAY

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## THE SPRING WINDOW.

| | | |
|---|---|---|
| 7 lb. | ... | 1/11 lb. |
| 14 ,, | ... | 1/10 ,, |
| 28 ,, | ... | 1/9 ,, |
| 56 ,, | ... | 1/8 ,, |
| 112 ,, | ... | 1/7 ,, |

Compressed Sulphur Tablets, orange flavoured. Reductions in price.

Tins of 50, 6/- per dozen.

Also Raspberry and Sulphur Tablets at the same price.

**Arthur H. Cox & Co., Ltd.,** Manufacturing Chemists, Established 1839 — **Brighton.**

The *Lancet* describes it as "Mr. Benger's admirable preparation."

**FOOD FOR INFANTS**

**BENGER'S**

GOLD MEDA AWARDED HEALTH EXHIBITION, LONDON.

Wholesale of all Wholesale Houses and Shippers or from the Manufacturers

BENGER'S FOOD LTD., Otter Works, MANCHESTER, Eng.

Branch Offices at: 117 Pitt St., Sydney, Australia; 90 Beekman St., New York, U.S.A. Canadian Agents: The National Drug and Chemical Co. Ltd. Montreal and Branches. SHOWCARDS AND HANDBILLS ON APPLICATION.

The *British Medical Journal* say "Benger's Fo has by its exc lence established reputation of own."

**INVALIDS AND THE AGED**

FOCUS ON THIS!

WOULD YOU LIKE TO SELL MORE TOOTH PASTES, POWDERS AND ALL OTHER DENTAL REQUISITES YOU STOCK

Well, you can easily, quickly, and profitably increase your returns remarkably by interesting yourself in

**ZEPTO**

PENCILS.

These latter will call for no effort whatsoever on your part. Automatically sales are registered directly the

**"WE THREE"**
**WINDOW IDEA**

is in position in your window with other pieces of show material, and tinkling in the cash register will be 100% for you.

You all know how "Zepto" is packed, and what the price is.

**100%** P. A. T. A. ON COST

**9D.** Each P.A.T.A. Per One Dozen Carton **5/3**

**If you get the people to stop, read, and come in, you can't help making your counter busy.**

THOS. CHRISTY & CO., 4/12 Old Swan Lane, E.C. 4.

THE CHEMIST AND DRUGGIST

A Weekly Journal of Pharmacy and of the Chemical and Drug Trades

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# Wills.

M DAVID ALLEN CARGILL, chemist and druggist, wer Broughton Road, Broughton, who died on 9, left 3,333*l.* 14*s.* 3*d.* Probate is granted to argill, the widow.

M HENRY BOYCE, Resurgan, Horn Lane, Woodford, chemical merchant, who died on April 29, 1920, left of the gross value of 3,420*l.* 11*s.* 11*d.*, with net alty 1,020*l.* 5*s.* 8*d.* Probate of his will has been l to Mr. Benjamin Alfred Smith, 4 Church Row, , E.

M WILLIAM SHEPPERSON, F.C.S., Deerswood Cottage, Sussex, who died on December 14, left 11*s.* 4*d.*, the net personalty being 28,339*l.* 18*s.* 4*d.* tator gives 500*l.* to his wife, 25*l.* each to the other rs, and the residue in trust for Mrs. Shepperson , and then in trust for his daughter Gladys and e.

A NVASS taken lately by the Exeter traders' associa- favour of the Early Closing Association's seven Compulsory Closing Bill for shops resulted as : 517 in favour of seven o'clock compulsory clos- or eight o'clock, 72 neutral, 11 against compulsion, referring longer hours.

# English and Welsh News.

**The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."**

### Poisonings.

The following cases of fatal poisoning have been recorded since our last report:

At Holme Bridge, Huddersfield, Charlotte Brook committed suicide by taking carbolic acid.

At Dewsbury, Ada Jessop died in the infirmary on February 10 from starvation, arising from inability to swallow. Evidence given at the inquest showed that the deceased drank a solution of ammonia on October 12 last while in a state of depression. A verdict of "Suicide while temporarily insane" was recorded by the coroner.

### Daisy Powders at an Inquest.

An inquest was held at Hastings, on February 18, on the body of Arthur E. Read, aged nine. The evidence of the boy's mother was to the effect that she gave him a Daisy powder at three o'clock one afternoon and that he rapidly became delirious, dying, in spite of medical attention, two hours later. Dr. W. Gover said that he saw deceased in bed absolutely unconscious, and possibly suffering from the effects of a class of drug of the coal-tar derivatives. He examined deceased and washed out his stomach; he then sent for oxygen and gave him artificial respiration for forty minutes. When his breathing stopped he injected strychnine into his heart, but it was of no use. Death was due possibly to bronchial pneumonia, but in his opinion this was not sufficient to cause coma and sudden death. He had looked into the subject of "Daisy" powders, and found they were stated to contain, on an average, about 6 grains of acetanilide, and the maximum dose of this for an adult was 5 grains, according to the British Pharmacopœia. The instructions on the packet were "half a powder for children of twelve years and upwards" and "not adapted to children under twelve years." Dr. A. H. H. Huckle said that he did not think coal-tar derivatives were safe to be given to children. Acetanilide was a dangerous drug at all times. Daisy powders were reputed to contain that drug, but he had not analysed one. The jury returned a verdict that deceased died from bronchial pneumonia and that his death was accelerated by the Daisy powder, administered in error. The foreman said that they wished the public to know that Daisy powders should not be given to children.

### Birmingham.

Birmingham's rates are to remain at 18*s.* in the £ for three years.

The city, a correspondent informs us, is gaining a reputation for high prices.

Mr. Laurence C. Tipper, of the Balsall Drug Mills, is a prospective candidate for Parliamentary honours.

A recent number of the "Birmingham Weekly Post" contained an illustrated account of the manufacture of perfumes at Grasse.

Dr. Jessie Elliott (wife of Dr. W. T. Elliott, L.D.S., chemist and druggist), is to lecture, on March 1, on "Parasitic Fungi on Trees."

One complete outfit for canine ailments was exhibited at the Bingley Hall Dog Show; otherwise displays of a medical character were not numerous.

The Bishop of Birmingham, in a recent address, advocated a return to the old-time apprenticeship, when trainers turned out men "of fine character."

Sir Robert Hadfield, the Mond Nickel Co., Ltd., and the Dunlop Rubber Co., Ltd., have each offered a special prize of 5*l.* for research work in chemistry at the municipal technical school.

For the convenience of those attending the local section of British Industries Fair, there is a special aerial service between London and Birmingham. The journey

takes an hour. The exhibits include scientific and optical instruments, drugs and druggists' sundries, electric cells and appliances are being shown by Siemens Bros. & Co., Ltd. Numerous posters printed in several languages advertise the Fair locally.

### Liverpool.

Mr. J. W. Hamnett, Wavertree, has been appointed manager at the Bootle branch of Boots, Ltd.

Retailers report a perceptible decline in turnover. Wholesalers find business steadier, there being no more rushes but a good volume of trade and many signs of expansion.

The Liverpool Amateur Photographic Association is holding an exhibition at the gallery of the Royal Photographic Society, Russell Square, London : it remains open till March 12.

A central-area pharmacist, after spending six days in bed, rose and went to a wholesaler for a new ingredient for his medicine, and thence to his own pharmacy in order to dispense it. The result was a return to bed, with a determination not to essay the experiment again.

"If you attend to your school lessons well, you may expect the managers to give you a scholarship," was the promise of a pharmacist's wife to her six-year-old son. After thinking out the prospect, he asked : "When I get the scholarship, will you let me sail it on the park lake?"

The red-letter warning to the public on the subject of the Dangerous Drugs Act Regulations is being generally displayed by the district pharmacists, and copies have been written for, from Yorkshire and other parts. Comments by customers show that the popular education on the subject proceeds.

Five years ago Mr. William P. Evans, on taking the chair of the Liverpool Chemists' Association, asked that each meeting should see an addition to the roll. He continued to urge this during three years of presidency, and Mr. David H. Evans (Lodge Lane), who succeeded him, did the same for two years more. Mr. W. H. Clubb, Ph.C., has started his year as President with new members and associates enrolled.

### Manchester

"We have never had such a mild and warm February since 1909," is the opinion of Mr. Jenkins, of the Godlee Observatory, regarding this month's weather.

Chemists are beginning to make window-displays of spring medicines. Mr. J. W. Bygott, Ph.C., Stockport Road, Longsight, has an effective show of sulphur tablets and other things, designated "The Triple Treatment."

Mr. R. E. Parry, chemist and druggist, who until recently has been manager at Mr. Harry Kemp's pharmacy, Wilbraham Road, Chorlton-cum-Hardy, has purchased the business in Ayres Road, Brooks Bar, hitherto carried on by Hall's Pharmacies, Ltd.

Mr. J. E. Schofield, Stockport Road, Ardwick, has an attraction in his pharmacy window. He has placed there a dressing-table set out with various toilet requisites, and a large poster announcing to his customers that if they spend 3*s*. he will present them with a 1*s*. nail-brush. This offer is only open for two days.

The need for labelling inflammable varnishes was emphasised by the Manchester city coroner during an inquiry, held on February 7, into the death of Henry Esilman, a foreman employed by a Manchester chemical company. One of the managers of the company stated in evidence that he had been pouring out a drum of varnish when Esilman came into the room. Esilman, on his own suggestion, brought a light, the drum burst into flames, and both were badly burned. Esilman died in the Ancoats Hospital. The coroner said it was most important that the varnish should be labelled "Inflammable." In reply to a question, he said that he had no power to enforce his advice, but, if such an accident happened again, he would summon a jury and explain to them the facts of the case, and a charge of manslaughter would probably be brought in.

One of the most instructive and attractive window displays ever seen in Manchester is now being shown at the pharmacy of Bryan & Spedding, Ltd., Deansgate. In the centre is a large showcard, which reads, "Dispensing : 100 per cent. efficiency," and in other parts of the window are showcards containing such appeals as the following :

Ask your doctor for a prescription: our qualified chemists will dispense it.

Dangerous and poisonous drugs are stored in special containers in a special cupboard set apart for that purpose.

Dispensing is not merely dropping so many drops into a bottle, but compounding in accurate scientific rotation. The qualified chemist is the proper person for this duty, and is specially trained for the purpose.

These showcards are associated with some telling object lessons. One consists of an 8-oz. dispensing flat bottle originally "One tablespoonful three times a day," the wording being crossed out and "Liquor Fowleri" substituted : this is instanced as "the dangerous way of keeping poisons. Close by is a (poison) shop-round bottle labelled "Liquor Fowleri" in large painted letters : this is shown as "the chemist's way" of storing such preparations. Another object-lesson comprises two bottles of potassium-iodide-iron-and-quinine-citrate mixture illuminated from the back : one, "unskilfully dispensed," is dark brown in colour ; the other, "compounded with the greatest skill," is amber-coloured. The certificates of two pharmacists are also exhibited, and the window is flanked with an array of bottles containing drugs and preparations, measures, glass and porcelain mortars, dispensing-scales, beakers, and pipettes. The display has attracted a great deal of attention from the medical profession, and has been highly commended by chemists and others who have seen it. At the present moment one would like to see many such window-displays made throughout the country. They would be topical and would help in educating the general public. It has been suggested as a good business proposition that all the chemists in a town should make this display at the same time.

### Newcastle-on-Tyne.

Dr. F. C. Garrett, President of the Newcastle-on-Tyne Chemical Industry Club, lectured, on February 5, at the club's headquarters on "Some Great Men in Chemistry." The lecturer interested his audience by reminiscences of Professor H. E. Armstrong, Sir William Pope, and other distinguished chemists. Several members of the club paid a visit, on February 19, to the works of the Team By-product Coke Co., Ltd.

The principal landmarks in botany were described at a lecture given on February 16 in Armstrong College by Mr. M. C. Potter, professor of botany at that institution. The lecturer traced the use of botanical knowledge from the time of Theophrastus to that of Pasteur and Lister. More recent advances in phytopathology were also indicated by the lecturer, such as the doctrine of pleomorphisms, the changes of a saprophyte, and the research on abnormal plant growths which shed light upon the study of cancer in the human body.

### Miscellaneous.

Wine-licences Granted.—Since our last report the following applicants have been granted wine off-licences : Mr. R. Smithson, chemist and druggist, Wheatley Hill ; Taylors' Drug Co., Ltd., chemists, South Elmsall.

Poison-licence Applications. — Applications for licences for the sale of agricultural and horticultural poisons have been applied for at Mansfield by Farrow Bros., Beard & Freeman, Wright Bros., and the Nottinghamshire Farmers' Trading Society.

Cost of Living.—It is announced that, on February 1, the average level of retail prices of all the commodities taken into account in Ministry of Labour statistics was 151 per cent. above that of July 1914, as compared with 165 per cent. a month previously and 176 per cent. on November 1, 1920.

Skeleton Found Beneath a Shop.—During structural alterations to the premises of Mr. H. P. Hearder, em-

d druggist, Westwell Street, Plymouth, a skeleton was earthed by the workmen. The bones, which were evi-ntly those of a substantially-built man, were well pre-rved, although the skull was damaged in the course of sinterment. The preservation of the teeth is especially ticeable. The opinion of the curator of the local museum that the skeleton is from 200 to 300 years old, and of e "flat-headed" type. The locality of the find is one the oldest parts of the town.

Bankruptcy Annulled.—The bankruptcy of the late . Andrew Mitchell, chemist, Boston, has been annulled the application of his son and executor, Mr. A. C. . L. Mitchell, chemist, Worcester, to Judge Sir G. erston Baker, at Boston, on February 17. It was stated t all the debts had been paid in full, with interest at per cent. The total debts were 881*l.* 4*s.* 11*d.*, certain all creditors for 3*l.* 1*s.* 7*d.* had neglected to prove their ts, but money had been handed to the Official Re-ver to pay them. His honour, in ordering the bank-tcy to be annulled, said it was the first time he been asked to free a dead man from bankruptcy.

ommittee on Patents.—An Inter-Departmental Com-tee on Patents has been established: (1) To consider methods of dealing with inventions made by workers d or maintained from public funds, whether such kers be engaged (*a*) as research workers, or (*b*) in e other technical capacity, so as to give a fair reward the inventor, and thus encourage further effort, to re the utilisation in industry of suitable inventions to protect the national interest; and (2) to outline urse of procedure in respect of inventions arising out tate aided or supported work, which shall further e aims and be suitable for adoption by all Govern-t Departments concerned. The secretary is Mr. A. tt, 16 and 18 Old Queen Street, Westminster, London, 1.

The Courts.—At Bradford City Police Court, on uary 18, John Adamson (35), a traveller for Booth & wholesale druggists, Idle, was bound over on a e of embezzling the sum of 2*l.* 7*s.* 8*d.* belonging to irm.—In the Central Criminal Court, London, on uary 18, Thomas D. O'Sullivan and James Moran each sentenced to eight years' penal servitude, and ed P. Kenny to four years' penal servitude, for iring to set fire to the works of the Vacuum Oil Co., York Road, Wandsworth (*C. & D.*, January 22, ).—At Marylebone Police Court, on February 18, Hamley, alias Margaret de Lancey Williams, was 20*l.*, with 5*l.* 5*s.* costs, on each of four summonses red by the Medical Defence Union for falsely pre-g to be a medical practitioner and falsely using the of bachelor of medicine. It was stated for the ution that the accused had, without any qualifica-cted as *locum tenens* to a West London medical man, a temporary medical officer at Neasden Hospital.—arlborough Street Police Court, on February 21, Ivaldi, described as a film agent of Italian ality, was sentenced to six months' hard labour ing in unauthorised possession of 200 grams of e, for which he stated, he had paid 2,300 fr.—w Street Police Court, on February 22, the charge lly preferred against Leonard H. Booth in connec-ith the sale of a powder supposed to be cocaine *D.*, February 19, p. 47) failed. Subsequent analysis that cocaine was not present. He was, however, ed to two months' imprisonment on another charge. Cardiff, on February 18, N. Megaloodis, ship's er, was fined 20*l.* for unlawfully importing 462 gr. ine.—At Swansea, recently, Thomas McGlynn, r, was sentenced to three months' imprisonment for g glass in the shop of Mr. E. T. Rich, chemist and t, High Street.

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Association Pro Plante Medicinali (a society ouraging the cultivation of medicinal and aromatic under the auspices of the Italian Ministry of ture, has arranged a competition, for which two edals, with special diplomas, will be conferred, two cultivations of medicinal plants which are ed best.

# Irish News.

### Brevities.

Mr. J. F. Grimes, J.P., R.D., Pomeroy, was a witness for the Crown in a case at Pomeroy on February 16, in which George Girvan was committed to Tyrone Assizes on a charge of burglary and larceny of 40*l.*

The Irish King's Bench has remitted for trial to Belfast an action by the wife of Mr. R. McBirney, Ph.C., of Annalong, co. Down, against Mr. M. Waddell, manager of Bessbrook Mill, on account of personal injuries sustained in a motor collision.

At the Newry Petty Sessions, on February 16, Patrick Fegan, ex-soldier, Cornmarket, was returned to the Assizes for trial on the charge of having, on February 10, broken a plate-glass window, value 34*l.*, in the pharmacy of S. Connor & Sons, at the corner of Hill Street and Mill Street, Newry.

### Dublin.

At the Dublin City Sessions, on February 22, Boileau & Boyd, Ltd., wholesale druggists, Dublin, appealed against fines of 15*l.* and 10*l.* imposed by Mr. Lupton for selling camphorated oil which the corporation analyst proved was deficient in the proportions it should have contained of olive oil and of camphor (*C. & D.*, January 15, p. 48). Mr. Brunker, a director of the company, stated that he had bought the "olive" oil as olive oil, and it was stated so in the invoice (produced) from the importer, and the price of olive oil was paid for it. The recorder, in reducing the fines to 1*l.*, said he was quite satisfied there was no deliberate design to defraud the public.

### Ulster Retail Drug Trade Association.

A meeting of the Committee of the Ulster Retail Drug Trade Association was held in Belfast recently, the President (Mr. S. Suffern) in the chair. Other members present were: Messrs. W. E. Wilson, W. J. Hardy, James Tate, R. W. McKnight, A. W. Mann, E. J. Roberts, J. Hewton, J. Dundee, Wm. Dobbin, J. A. Bingham, Wm. Macartney, A. Abernethy, J. Haydock, J. Moffet, R. Kells, and the secretary (W. J. Stevenson). Mr. W. J. Hardy gave a report on efforts put forward in interviewing members of Parliament, the Board of Agriculture (through the Farmers' Union), Chamber of Trade, and other Associations with regard to the Draft Regulations of the Dangerous Drugs Act. Acknowledgments had been received from the Under-Secretary of State, Sir William Glyn-Jones, the Rt. Hon. E. M. Archdale, M.P., W. A. Lindsay, M.P., J. R. Lonsdale, M.P., and H. T. Barrie, M.P. Mr. Rankin submitted the balance sheet for year 1919.

### The Late Dr. McWalter.

The "Medical Press and Circular," in an obituary notice in its issue of February 16, has the following tribute to the late Dr. McWalter:

Dr. McWalter had great and rare qualities of head and heart. Full of energy, he got through as much work as three ordinary men. His writings display originality and ingenuity far out of the common. In conversation he was overflowing with brilliant ideas, which, indeed, he rarely troubled to develop. Once he had given vent to an idea, however suggestive or fruitful it might be, he appeared to lose interest in it, and passed on to something else. He had little respect for tradition, and was willing to have a tilt at anyone or anything. But with all his intellectual energy and quickness he was in many ways one of the most simple-minded of men. Entirely devoid of self-seeking, his patent honesty and frankness charmed one. And hot-tempered and impulsive as he often was, he was one of the kindliest of men. He appreciated all kinds of men, and bore rancour to none. To the poor and to those in trouble he was the essence of kindness and generosity. It is characteristic that one of the last acts of his life—within a few hours of its sudden close—was to intercede with the military authorities on behalf of a young man who had been recently tried before a court-martial on a serious charge. Dr. McWalter's death has robbed the medical profession of Dublin of one of its most lovable and loyal brethren, the poor of a generous benefactor, and the city of an upright and honourable citizen.

# Scottish News.

### Brevities.

Mr. A. Patterson, chemist and druggist, Buckie, has been appointed to supply drugs, etc., to the Rathven Parish Council.

The late Mr. Thomas Dunn, chemist and druggist, whose death we announced in last week's issue (p. 57), was closely identified with Selkirk, where he succeeded his father as registrar in 1875, for many years. His activities were not confined to business. He was one of the promoters of the Golf Club, the oldest member of Selkirk Bowling Club, and for many years secretary of Selkirk Curling Club, and in his younger days an ardent supporter of the Volunteer movement. Mr. Dunn was the last male member of an old Galloway family.

### Edinburgh.

A young woman appeared in the Sheriff Court on February 22 on the charge of uttering as genuine a prescription on which the name "J. Fraser, M.B.," was found to be forged.

A paper on "Rancidity of Butter and Margarine Fats" was read by Mr. W. N. Stokoe, B.Sc., at a meeting (held at 36 York Place) of the Edinburgh and East of Scotland Section of the Society of Chemical Industry on February 16. Dr. D. S. Jordan occupied the chair. The lecturer, after describing some of the chemical changes which take place in rancid fats, proceeded to classify the various kinds or forms of rancidity, and to show the causes producing these. The rancidity of butter and margarine, it was stated, is almost wholly caused by the action of micro-organisms.

# South African News.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

### The Union.

Mr. George King, representative of Evans Sons Lescher & Webb, Ltd., in South Africa, sailed on January 15 from Cape Town for Australia. During his comparatively short stay in the Union, Mr. King, by his genial, businesslike manner, has endeared himself to every pharmacist there. While sincerely sorry to part with him, they cordially wish him every joy, prosperity, and good health in his new and more important sphere of action. Mr. J. J. Wicks, who has taken over the representation of Evans Sons Lescher & Webb, Ltd., in South Africa, has been with the company for many years, and was for some time their representative in Nigeria, the Gold Coast, and Sierra Leone.

Sale of Opium.—The "South Africa Government Gazette" (November 5) contains copy of regulations (Notification No. 1987), dated November 2, 1920, regarding the importation and sale of opium in the Union. The regulations provide that opium, or any preparation thereof, may be imported into South Africa (exclusive of the Transvaal, into which importations are subject to Ordinances Nos. 25 of 1906 and 4 of 1909) only by a registered medical practitioner, dentist and chemist and druggist in actual practice, with the permission of the Secretary for Public Health. Such permission will be granted, subject to the following conditions—viz.: (*a*) The substance shall only be disposed of for medicinal purposes. (*b*) Before disposing of it the importer shall require the production of a medical prescription, or a full statement in writing from the person to be supplied, of the purpose for which the article is to be used by him. (*c*) Every person to whom a licence is issued under these regulations shall keep a special record, termed an "Opium Register," showing the quantity and kind of opium or preparations of opium in stock, and containing a correct statement of all sales and disposals of such opium.

### Transvaal.

At Pretoria, on January 11, the Board of Control heard a complaint, under Section 3 of the Profiteering Act, by the South African Toilet Requisite Co., Johannesburg, against Taylor & Co., importers of dental goods, Johannesburg. From the evidence it appeared (*a*) that Taylor & Co. are the sole distributing agents in South Africa for Kolynos, and that they have refused to supply that dentifrice to the South African Toilet Requisites Co. unless the latter retails it at the "recognised retail price" of 1*s.* 7*d.* per tube. (*b*) That supplies are sold by Taylor & Co. to wholesale chemists in Johannesburg, with the condition that such chemists shall not resell to the Toilet Requisites Co. (*c*) That the price to the wholesale chemists is 13*s.* 4*d.* per dozen, and that the condition that the dentifrice must be retailed at 21*s.* creates a profit of 76⅔ per cent. per tube, which is an unreasonable profit. Mr. E. V. Rickard appeared before the Board to sustain the complaint on behalf of the Toilet Requisite Co. Mr. R. Horne appeared on behalf of Taylor & Co. In reply to a question by the chairman, Mr. Horne stated that the overseas cost of the article was 7*s.* 11*d.* per dozen net, landed at Johannesburg 10*s.* 6*d.* per dozen net, equal to a gross profit of 27¼ per cent. Wholesalers were required to sell to retailers at 15*s.* 10*d.* per dozen net, giving a gross profit of 18¾ per cent. to the wholesalers, and retailers were obliged to sell to the public at 21*s.* per dozen net, giving a gross profit to the retailer of 33 per cent. Mr. Batty drew attention to the fact that the price to the public is exactly 100 per cent. over the landed cost at Johannesburg, which is an excessive gross profit to make on a proprietary article. Mr. Horne admitted that the article was sold by his firm, which possessed the sole agency, with the reservations complained of, and justified his action by the past practice of the trade. After hearing further evidence, the chairman pointed out that the law required the Board of Control to compel any manufacturer, importer, or distributor to supply any article brought within the provisions of the Act which he may have in stock on the most favourable terms, in accordance with the custom of the trade, to any *bona-fide* trader, association of traders, or co-operative society in a position to make satisfactory arrangements as regards payment for the goods in question and willing to take the quantities usually supplied to wholesale traders. (Note: Chemists' goods and sundries were brought under the Act by Government Notice No. 19 of 1920.) It was not alleged that the South African Toilet Requisite Co. was not a *bona-fide* trader as defined in the Act, nor that it was otherwise unable to fulfil the conditions laid down in the law. It seemed to him on the evidence that this was clearly a case on which it would be necessary for him to make an order against Taylor & Co. There was no justification for charging the public the very high rate of 100 per cent. over landed cost. It had been stated to the Board by Mr. Rickard that he sold this article at 1*s.* 6*d.* he would be making a larger profit on it than on any other line of proprietary article stocked by his company. The order would be made in writing and furnished to the parties concerned.

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In summing up at an inquest on a baby suffocated by swallowing a soothing teat, the Islington coroner remarked that the use of these teats ought to be made illegal.

"The Square Chronicle," No. 11 of which has just reached us, has not appeared since December 1915, when it became evident that the activities of the Bloomsbury Square School of Pharmacy Students' Association would have to be suspended. The present issue, consisting of twenty-four pages, opens with a cheery paragraph that invites quotation: "It is the privilege of few publications, we imagine, to go to sleep for six years, and then to awake again with an increased circulation; yet this is what has actually happened in the case of the 'Square Chronicle.'" The contents of the magazine include "The Secretary's Page," by Mr. Harry Martin, "Football Jottings," "Pets," and other brightly written articles, and notes on several topics of interest to past and present students of the School.

# French News.

(From the "C. & D." Paris Correspondent.)

"Free packing and delivery" continues to be disputed tween wholesale druggists and retail pharmacists. opes of general agreement or compromise seem to be mote, and each firm makes the best bargains its position ows.

Combine of Butchers and Pharmacists.—At the sug- tion of M. Joubin (President of the Paris Association Wholesale Butchers), a company has been formed of tchers and pharmacists to assure the working of a new oratory in which the glands of freshly slaughtered mals will be immediately prepared for medical use. e company proposes to invite the Faculty of Medicine utilise their laboratory for the purposes of scientific earch.

M. Lucien Dior, the new Minister of Commerce, who s one of the speakers at the banquet of the Paris British amber of Commerce, held at the Palais d'Orsay ently, is a chemical manufacturer. His works are in native town, Granville, just opposite Jersey. He s at one time President of the Tribunal of Commerce re, and is still a member of the local Chamber of mmerce. In the Chamber of Deputies he has repre- ted Avranches since 1910.

The Union of Producers and Consumers for the elopment in France of Synthetic Chemicals, etc., has n officially appointed to distribute the German repara- n chemicals. A project or notice on this subject, con- ing the principal articles of agreement, the principles "repartition" or distribution, the list of names, quan- es, and prices of products has been drawn up by M. Deehaud, Pelliot, and Chauffour, of the Wholesale ggists' Association. The Union states that the Germans extremely active and that their output (of which the es take 25 per cent.) is enormous, exceeding what was mated.

In the recent discussion at the Chamber of Deputies he measures necessary to protect and foster French stries, M. Charles Baron spoke of the Marseilles soap stry, which, he said, dated from Phœnician times. the method of manufacture was by no means modern, nly one soapworks in Marseilles had hundred-ton rs or vats. Oils, again, were only treated to extract erin. The English law compelled manufacturers to fatty ethers and to transform them into fatty acids glycerin. By extracting 10 per cent. of glycerin about . was gained on every 100 kilos. (about 2 cwt.) of oil ed.

Dentists' Appeal Dismissed.—Before the decree of ember 14, 1916, French dentists enjoyed the same leges as doctors, so far as the purchase of poisonous ances from pharmacists was concerned. But this de- applied and confirmed by the Minister of the In- on May 12, 1917, limited and scheduled the thetics to which dentists had a right, and even pro- that certain of these should be artificially coloured. dentists appealed to the Conseil d'Etat, through their association. They complained also that the new e placed qualified dentists (*i.e.*, those possessing a na) and the so-styled "patented" dentists on an footing so far as anæsthetics were concerned. The il d'Etat has just given its decision, dimissing both entists' complaints.

Crimes "in Absentia."—An incident of the discus- f the amnesty (for certain offences committed dur- e war) in the Chamber of Deputies was the inter- n of M. Charles Bernard in favour of pharmacists. plained that when the law regulating the sale of efying drugs" was passed, many pharmacists were he Colours. During their absence their "assistants ves, who were managing the business under the ision of some neighbour pharmacist," had often d to keep the new register of sales required by the On their return from the army, M. Bernard assured his colleagues, they found themselves ordered to pay the minimum fine of 500 fr., or go to prison. He caused some amusement by affirming that the Minister of Justice "seemed completely to ignore the laws regulating pharmacy," and offered "in the most friendly way" to put him up to date on the subject. His final appeal that he, "who never asked for anything, begged them to pardon his unhappy *confrères*," proved successful

The Silver Medals (first prizes) of the Paris Faculty of Pharmacy for 1920 have been awarded to MM. H. Robert (first year), E. Tavernier (second year), and M. Lemettre (fourth year); the bronze medals (second prizes) to MM. Pihouée, David, and Poirot. No medals are allotted to third-year men. For laboratory work the ladies have done well. Mlles. Louinat and Savers take silver medals for general chemistry, and Mlle. Renaudin for micrography. The physical sciences silver medals are awarded to MM. Flamand and Pillier, the analytical chemistry to M. Aubry. Both in analytical chemistry and in micrography Mlle. Darnal divides the second prize with a male student, in the former case with M. Pamela (of Martinique), in the latter with M. Fouilloux. The Laroze (chemical analysis essay) prize is divided between MM. Philibert, Compin, and Fabre. The Buignet (physical sciences) first prize is withheld. M. Sibassié takes a second only. The Flon prize is divided between M. Dematte and Mlle. Hemmerlé; and M. David wins the Lebeault prize of 500 fr.

Patriotic Pharmacists.—A long list of nominations as Chevalier of the Legion of Honour, published in the "Journal Officiel," is interesting as revealing how many civilians did useful work "behind the front" or in the occupied districts during the war. Included in the list are two pharmacists. M. L. H. Cavallier has "twenty-five years of pharmaceutical practice" at Crecy-sur-Serre, and is a municipal councillor. During the occupation he acted "at every moment as the defender of his fellow citizens" against the invader's exactions. Finally he was condemned to death for having concealed a French soldier. The capital sentence was commuted, but he was kept at Kiel for thirty months in solitary confinement, an experience which has not discouraged him from devoting himself energetically to public service since the Armistice. Few French towns seemed less touched by the war than Biarritz. Yet M. Félix Mouren, pharmacist and ex-Mayor of the southern resort, found it possible to do much war-work. He volunteered as honorary pharmacist of a large military hospital, actively collaborated in schemes for the benefit of prisoners of war, and not only presided over the local committee for the reception and care of refugees, but personally managed the Aguelera Refuge, where the number of inmates was never less than six hundred. His red ribbon is the recognition of his services.

The New French Codex.—M. Fleury, Professor of Materia Medica at the Rennes School of Medicine and Pharmacy, has been criticising the Codex, with its latest additions and corrections, and points out that further additions and corrections are required. In designating plants, for instance, he asks why is sometimes the name of the class given and sometimes the name of the order? Why not adopt a uniform and more general indication, as, for example, "Polyporus officinalis—Hymenomycetæ"? The indication of the portion of the plant to be used is often not only unsystematic but, botanically speaking, vague. For instance, "Poppy: part used: flower." The poppy-gatherer who accepted this literally (remarks M. Fleury) "would hardly be able to sell his wares, although they might conform to Codex specification." In certain other cases the word "flower" is used where petals only are clearly implied. The expression "plant in flower" may include the root in the case of the lily of the valley, but not in the case of calamint and rue; but such points should be specified, not left to the individual judgment. M. Fleury notes that though Vera Cruz sarsaparilla can be but rarely obtained nowadays it is still the officinal species. Would it not be better to substitute the more current "Tampico" variety? If a volume which is a legal authority is not correct, the door is always left open for officials who may cause annoyance.

# Colonial and Foreign News.

Senor Antonio Serra Pamies, pharmacist, Reus, is to make the well-known French speciality Vin de Vial for the Spanish market.

The Austrian Sugar Board is now able to supply every month 5 kilos. of sugar to each pharmacy in Vienna at 128 cr. per kilo. (nominally 5*l*. 6*s*.).

A pharmaceutical review, under the editorship of Dr. F. Sperling, of Marienbad, has appeared in Czecho-Slovakia. The new journal, which is to represent the interests of the chemical and pharmaceutical industry of the new republic, is a tri-lingual one, the articles appearing in Czech, French, and German.

U.S.P. Tincture of Ginger.—Under the terms of the Treasury Department No. 3092, the sale of tincture of ginger U.S.P. is prohibited after February 15, except on permits to purchase. However, this decision permits the sale of tincture or extract of ginger without restriction when it is made according to the new ruling—*i.e.*, containing twice as much ginger as now employed.

The Indian Government has decided to include "syrup cocillana compound" in the list of preparations containing opium and morphine attached to Customs Circular No. III. of 1913 as subsequently amended, the importation of which may be admitted by collectors of Customs under the proviso to the Notification in the Department of Commerce and Industry, No. 72,079, dated February 4, 1919 (Customs Circular No. II. of 1911).

German Duties Reimposed.—Certain classes of goods which have been for some time free of duty on importation from Germany, by virtue of proclamations issued in 1915 and 1917, are once more to be subject to duties prescribed for them in the German Customs Tariff. The principal items affected are various kinds of waxes, sulphate of copper, oxide of zinc, nitrate of ammonia, nitrate of lead, casein, and casein gum. Import licences are still required when these goods are imported into Germany.

Bandoeng Exhibition.—The second Netherlands East Indies Fair is to be held at Bandoeng (Java) from September 19 to October 9. The fair will be international in character, and will offer British manufacturers an opportunity of exhibiting wares of all kinds to a vast number of potential buyers in the East. A booklet giving details, in English, is being prepared by the British Chamber of Commerce for the Netherlands East Indies, 38 Dover Street, London, W. 1, to whom all inquiries should be addressed.

Belgian Narcotic Law.—To give effect to the provisions of the Opium Convention, the King has presented to the Belgian Parliament a Bill to regulate the trade in poisons, soporifics, stupefying drugs, disinfectants, and antiseptics. By the terms of this Bill the Government will be granted the power to supervise the importation, exportation, manufacture, transport, holding, and delivery of the above-named substances, as well as to issue the necessary Regulations dealing with these various classes of drugs, which up to the present it was unable to do. The bill also makes provision for penalties incurred by infringements of any later Royal decrees. In October 1919 a Royal decree was issued regulating the trade in cocaine, opium, morphine, and diacetylmorphine, their salts and preparations.

Italian Import Prohibition.—The decree prohibiting the importation of perfumery products from every foreign country excepting Switzerland, France, Algeria, and Belgium was maintained during January through a new Royal decree that allowed the exportation of the following products: Medicinal olive oil, against the importation of an equal quantity of pure olive oil; edible olive oil, by itself, or mixed with oil obtained from suitable seeds, if it be foreign and intended for re-exportation; Italian olive oil, if in exchange for a corresponding quantity of pure foreign olive oil; cod-liver oil (not in barrels); almo oil; green sulphide olive oil; industrial castor oil; benzo tolnol; dinitrotoluol; lactose, in powder and crystal citrate of magnesia; potassium chlorate; quinine, its sal and preparations, on condition that a quantity of quini corresponding to that exported be imported in retur The importation prohibition for all countries was mai tained on the following products: Pure spirit; toluol a mixtures of toluol; glucose; potassium salts; coffe molasses and residues of molasses; sugar of any kind, ev if burnt; permanganate of potash; quinine, its salts, a all those medicaments containing quinine; farina. T Ministry of Finances has increased the sale prices of quinine preparations that are a monopoly of the Itali State. Bisulphate of quinine, simple or with sugar, now lire 450 per kilo.; hydrochloride and bichloride quinine, lire 650; simple solutions of bichloride of quini or solutions with guaiacol, for hypodermic use, lire 1,0 tannate of quinine in small chocolates, lire 550.

Calcutta Chemists' and Druggists' Association.—general meeting was held on Sunday, January 9, at Pau Building, 1 Bonfield Lane, Calcutta. The Preside Mr. H. S. Paul (B. K. Paul & Co.), was in the cha supported by the Vice-President, Mr. Ashfag (H. Abdul Ghani & Co.). The following members w present: Mr. Frank Ross (Frank Ross & Co.), Mr. S. Dey (Daw, Dey & Co.), Dr. Chatterjee (Whitehall Ph macy), Mr. S. Arfeen (Shamsul Arfeen), Mr. Nazir Kh (New Comrade Co.), Mr. Aftabuddin (Aftabuddin Co.), Mr. Ejazuddin, Dr. N. M. Dey (Dey Bros.), M Shamsul Huq, Mr. B. C. Dhar (Dhar Bros.), Mr. Bh tacharjee (Shafi & Co.), Mr. K. N. Dutt (M. C. La & Co.) The visitors present representing overseas hou were Mr. H. Bonlton (Curling, Wyman & Co.), Mr. F Cheesman (Evans Sons Lescher & Webb, Ltd.), Mr. J Holden (Genatosan, Ltd., and Thos. Morson & Son, Lt Messrs. Tilden & Paxton (Howards and Boots), A. H. P. Jennings (Allen & Hanburys, Ltd.), P. Bart (Pearson Antiseptic Co.), and Mr. H. G. Harris (Merc The President, in his opening address, stated that object of the Association was co-operation, not among themselves but among the manufacturers, asked the visitors present to convey to their princip an assurance of goodwill from the members of the A ciation. The secretary (Mr. H. D. Nag) then read memorandum of the Association and explained the obje Mr. Frank Ross then proposed that extracts bearing the objects of the Association that particularly w interest manufacturers be sent to them. The prop was carried unanimously. A general discussion took p between the members and visitors present, and many portant matters were freely discussed with the objec co-operating with manufacturers. The present depres in the Indian markets was touched upon, and it decided to endeavour to stop speculation by people side the drug-trade. After a hearty vote of thank the President and to B. K. Paul & Co. for the us their building, the meeting, which lasted two hours, closed. The articles of association which bear upon manufacturers are as follow:

To safeguard the public against adulterated and strength pharmaceutical preparations and drugs, infants' and invalids' food, and to undertake legal ac civil or criminal, or both.

To undertake and settle all matters in dispute, between its members or between them and overseas m facturers or shippers.

To extend its activities to overseas countries in ord secure co-operation with firms concerned in the drug-t or its allied industries in the interests of the member the Association.

To arbitrate in matters in dispute either among members or between them and their shippers or custo such as may be referred to the Association.

To exercise a general control over the drug market a view to maintain the high standard of dignity and p confidence enjoyed by chemists and druggists in all civi countries.

To guarantee the performance of contracts by mem of the Association.

# Legal Reports.

**Bad Trade.**—In the Mayor's and City of London ourt, recently, before his honour Judge Jackson, Mrs. lice Schmidt, 9A Royal Parade Mansions, Muswell Hill, sued Mr. A. J. Wuertz, 59A Windmill Hill, Enfield, or 34*l.* 10*s.*, a balance of 44*l.* 10*s.* 2*d.* for damage done her furnished flat, which he and his wife occupied. he defendant disputed an item of 1*l.*, and said that r twelve months he was a sales manager to a firm of emical manufacturers. Trade in that line had been rrible. He was now carrying on business in selling sential oils, but was living from hand to mouth. He d earned scarcely anything since October. Business as going from bad to worse. His profit for January ould not amount to 10*l.* He would pay 2*l.* a month. dge Jackson said that the defendant was obviously raightforward in every way, and but for his offer no der would have been made against him. He found for e plaintiff, and ordered payment of 2*l.* in a fortnight d 2*l.* a month afterwards.

**Status of a Traveller.**—In the Portsmouth County urt, on February 10, J. Goldberg and F. E. Willett, ding as A. Fleming & Co., naval and military contrac- s, Queen Street, Portsea, sued Hawkins & Bezzina, een Street, for 63*l.* 1*s.*, part of an amount paid to the fendants for goods supplied, some of the goods having n subsequently returned to the defendants. The claim s based on two alternatives—that there was a rescission the first contract and that there was a new contract de. It was stated in evidence that on June 30, 1919, a . Keyes, employed by the defendants as traveller, came the plaintiffs and sold them fifty gross of Japanese ving-brushes for 108*l.* In January 1920 an order was de prohibiting the sale of Japanese brushes. At a sequent meeting between the parties it was alleged t Mr. Bezzina promised to take back such brushes as not been sold. They were returned, but no allow- e had been made. The defence was that Keyes was o way a traveller for the defendants, from whom he ght the goods. His honour said that there had been a flict of evidence, and he favoured the defendant's story he transaction. The action was dismissed, with costs.

**urkey and Florida Sponges.**—In the Mayor's and of London Court, recently, before his honour ge Jackson, Mr. Harold Marks, trading as the ional Sponge Co., 77 Minories, E.C., claimed 5*s.* 4*d.* against Mr. Thomas Adams, sponge mer- t, 185 Terrace North, Fenton, Staffs, for sponges lied. Mr. Harold Simmons, plaintiff's counsel, said the plaintiff had been dealing in sponges for many s. Defendant wrote and said he was about to start siness, and he proposed calling on them with a view lecting some sponges for his business. He did so in ist and saw some Turkey sponges. He inspected thoroughly and saw that they were of very good ty. He also wanted some Florida sponges, which quite inferior, and, in comparison with the Turkey es, of the commonest kind. Defendant bought a l of Florida sponges. He had every opportunity of cting them, but did not do so. Defendant paid 30*l.* count, and after waiting until October 7 he wrote aid that the sponges were dirty, slimy, greasy, and not be sold. He added that if the plaintiff would n a very low price he would try "and tack them someone if he could." Plaintiff replied that he not make any allowance. An allowance of 1*l.* 16*s.* nade for difference in weight. Defendant said he ot examine the sponges. Those which were sent of no use to him. He was satisfied with what he n top. He was guaranteed that the sponges were ke and they were not. Judge Jackson thought that fendant had not displayed business action in letting onths go by before complaining. He had had a of inspecting all the sponges and did not do so. ent for the plaintiff, with costs. Mr. Simmons he plaintiff would take back two of the cases of s and allow the defendant for them when he saw

# Bankruptcy Report.

**Re Hill Bros. (London) Ltd.,** 5 Fenchurch Street, London, E.C., chemical merchants and exporters. A compulsory winding-up order having been made against this company, the statutory first meetings of the creditors and shareholders were held recently at the Carcy Street offices of the Board of Trade, Lincoln's Inn, W.C. Mr. H. E. Burgess, Official Receiver, reported that the company was promoted in August 1919, with a capital of 30,000*l.*, divided into 10,000 preference and 20,000 ordinary shares, for the purpose of taking over from Hill Bros. a business of merchants, exporters, and importers. That was a very wide term, but it really meant that the firm, which had been established about a year, had some little connection with Italy, to which country the vendors had exported chemicals. The purchase price was 14,000*l.* in shares, and that was undoubtedly an excessive valuation; the business could not have been worth anything like that sum, as was shown by the fact that Mr. James Crichton, who subsequently became a director and had advanced 1,000*l.* to Hill Bros. in the old business, was given by one of the partners 7,000 shares in satisfaction of the debt. On that basis the 14,000 shares given in exchange for the business were only equivalent to 2,000*l.* The history of the company was one of big salaries. Mr. E. G. Hill, the managing director, was to receive 700*l.* per annum, plus 150*l.* director's fees; and Mr. Booth-Clibborn was to have 450*l.* per annum, but that was subsequently altered to 6*l.* a week and 10 per cent. of the profits made in one department of the business. He (the chairman) did not think those salaries were in any way justified, and, having regard to the heavy losses made during the company's brief existence, he hoped they had not been fully paid. A balance-sheet dealing with the ten months from the company's inception to May 1920 showed sales 37,700*l.*, gross profit 200*l.*, or only one-half per cent. on the turnover, and a net loss of 5,427*l.* That ten months was a crusher, and very little business was transacted after May 1920, at which date the assets were shown at 7,800*l.*, against liabilities 10,800*l.*—a state of absolute insolvency. The directors then had another flotation for the purpose of working up a commission business in relation to a French scent, brought over here by the inventor. In July 1920 a new company was floated and was called Hill Bros. (Manufacturing), Ltd., with a capital of 3,000*l.* Hill Bros (London), Ltd., was to have the option of purchasing 4,000 shares of the Manufacturing Co. at par, and was to be given a commission of 5 per cent. on the invoice value of the sales it effected for the new company. He was told that the advertising expenses to bring the scent before the public were to be defrayed by the French inventor. It did not seem that there was a fortune to be made in that way, although it was hoped thereby that Hill Bros. (London), Ltd., would redeem the money lost in their own company. In July 1920 they received an order from a customer in Greece for quinine at the invoiced price of 2,479*l.* They accordingly made arrangements to purchase the quinine from a manufacturing firm in this country at 2,279*l.*, thus showing a profit of 200*l.* on the transaction. It was proposed to pay that 200*l.* to the company's bankers, and thus relieve Mr. Crichton of his liability on a guarantee he had given for the company's overdraft. The company appeared to have given Mr. Crichton the bills of lading for the quinine for presentation at a bank of the Greek customer's nomination, whereupon he could draw cash against the goods as they were shipped. That was done, and Mr. Crichton duly drew the money, but instead of paying 200*l.* to the bank and the balance to the manufacturers who had supplied the quinine, he retained the whole amount as being due to him from the company, although undoubtedly he was aware of the whole facts. The company brought an action against Mr. Crichton, but the parties were doubtless working together, and the whole thing must have been rehearsed beforehand, for the action was compromised, and instead of the manufacturing chemists receiving 2,279*l.* they were only paid 900*l.*; the bank

overdraft was relieved to the extent of 250*l.* instead of 200*l.*; other guarantees to the amount of 500*l.* were released; and 50*l.* costs was allowed to both parties, leaving 760*l.* in the hands of Mr. Crichton to apply to the reduction of his debt. Those various amounts, in fact, came out of the pockets of the manufacturing chemists, and, added the chairman, "it is iniquitous that Mr. Crichton should have the opportunity of putting this 760*l.* in his pocket, apparently with the consent of the other directors. Probably the creditors will think it worth while to have the whole thing threshed out in open court." (Hear, hear.) The chairman added that at that time Mr. Crichton was owing the company a debt of 190*l.*, and of that he appeared to have been relieved. In September last a floating charge of 300*l.* was created on the company's assets for the purpose of paying off some pressing creditors, and a debenture for that amount was given to Mr. Crichton, who paid debts amounting to 168*l.* There was nothing, however, that the bond was effective for, apart from the office furniture, worth about 92*l.*, so that presumably he would have disbursed 76*l.* more than the value of the security covered by the bond. The statement of affairs had not yet been lodged, but the only asset was the said office furniture, and there were, in the shape of liabilities, unsecured creditors, 1,844*l.*; fully secured creditors, 38*l.*; partly secured creditors, 7,421*l.*, holding as securities foreign money valued at 2,010*l.*; and the debenture-holders claim 168*l.* The deficiency in assets to meet the liabilities of the company was estimated at 7,331*l.*, and as the paid-up capital was 17,602*l.*, the total deficiency as regarded contributories was returned at 24,933*l.* The capital consisted of the 14,000*l.* vendors' shares and 3,602*l.* cash subscribed, and the latter had evidently been lost in the trading. The liquidation was left in the hands of the Official Receiver.

## New Companies and Company News.

**P.C. means Private Company and R.O. Registered Office.**

Perolin, Ltd. (P.C.).—Capital, 2,250*l.* Objects: To acquire the trade-mark "Perolin" and to carry on the business of boiler-fluid manufacturers, boiler cleaners by mechanical and other means, manufacturers and suppliers of apparatus for steam boilers, manufacturers of chemicals, dyes, soap, paint, varnish, wood preservatives, etc. R.O.: 98 Victoria Street, London, S.W. 1.

Liley's, Ltd. (P.C.).—Capital, 600*l.* Objects: To adopt an agreement with Martha C. Liley and R. Hird, and to carry on the business of cash chemists, retailers of drugs, chemicals, perfumery, toilet articles, etc. The first directors are: Mrs. M. C. Liley, Derwent House, Roby, near Liverpool, and W. W. Liley, Derwent House, Roby, near Liverpool. R.O.: 9 Imperial Chambers, 62 Dale Street, Liverpool.

Bonell & Co., Ltd. (P.C.).—Capital, 2,000*l.* Objects: To carry on the business of wholesale and retail manufacturing chemists, wholesale druggists, cardboard-box manufacturers, pattern-card makers, and printers, and to adopt an agreement with E. B. Turner and H. Turner for the acquisition of the business (except cash and book debts) carried on by them in Agard Street, Derby. The permanent directors are: E. B. Turner, 10 Otter Street, Derby, and H. Turner, 94 Uttoxeter New Road, Derby. R.O.: Ellbon Works, Agard Street, Derby.

British Dyestuffs Corporation, Ltd.—At a meeting of the Board of Directors, held on February 18, the trading results for the year ended October 31, 1920, were considered, and it was decided to recommend the payment of a dividend on the preferred ordinary shares at the rate of 8 per cent. per annum (less tax), calculated on the amount paid up on these shares.

Bovril, Ltd.—The report for the year ended December 31, 1920, states that the net profit amounts to 219,738*l.*, which, with the addition of the balance brought in, brings the total to 250,712*l.* After providing for the fixed dividends on the preference and 7 per cent. ordinary a dividend of 8 per cent. is recommended on the deferred, absorbing 60,000*l.*; 50,000*l.* is carried to reserve, bringing that fund up to 500,000*l.*, and a balance of 20,212*l.* 4*s.* 2*d.* subject to corporation profits tax, is carried forward. The sum of 20,000*l.* has been added to the staff pension fund. The dividend paid last year by Virol, Ltd., was again at the rate of 15 per cent. Substantial progress has been made during the year in the development of the company's nutrient laxative "Virolax."

A. Millar & Co., Ltd.—The annual meeting was held on February 17 at the offices, 10-13 Thomas Street, Dublin. Mr. F. A. Millar, managing director, presided. The chairman moved the adoption of the report and statement of accounts for year ended November 30, 1920, which, having been seconded by Mr. W. C. Crimmins, was passed unanimously. Payment of interim and final dividend on preference shares of 5 per cent. per annum, less income-tax, and interim dividend of 6 per cent., less income-tax, on the ordinary shares, was confirmed. A final dividend of 12 per cent. and a bonus of 2*s.* 6*d.* per share (less income tax) on the ordinary shares was authorised; 5,000*l.* was placed to reserve fund. Immediately after the business of the ordinary meeting had concluded an extraordinary general meeting was held, Mr. F. A. Millar presiding, and resolutions respecting increase in capital were passed. A further meeting will be held in a fortnight's time for the purpose of confirming these resolutions.

E. H. Wrigglesworth, Ltd., St. Andrew's Works, Mason Street, Hull.—A meeting of creditors was held recently, when it was reported that the company had gone into voluntary liquidation. A statement of affairs showing the position on January 19 disclosed liabilities to unsecured creditors as 14,227*l.* 14*s.* 9*d.*, made up of the claims of unsecured trade creditors 7,896*l.* 2*s.* 9*d.*, loan creditors 1,830*l.* 12*s.*, and other claims 4,000*l.*, while there was a ranking liability of 501*l.* in respect of partly secured claims. The assets amounted in all to 15,364*l.* 13*s.* 1*d.* and comprised cash in hand 32*l.* 11*s.* 9*d.*, stock-in-trade estimated to produce 3,250*l.*, plant, machinery, etc., 3,730*l.*, fixtures, fittings, furniture etc., 650*l.*, book debts 1,472*l.*, debtors 2,365*l.*, and other items, making up the total as stated. After deducting 5,000*l.* for the debenture claims and 500*l.* for the claims of preferential creditors, the net assets were shown at 9,864*l.* 13*s.* 1*d.*, or a deficiency of 4,363*l.* 1*s.* 8*d.* The fully secured creditors' claims amounted to 3,125*l.* 8*s.* The company was incorporated in September 1914 under the name of Extirm Ltd., with a nominal capital of 2,000*l.* About August 1915 the shares were purchased by Mr. Wrigglesworth, the late Mr. Spink, Mr. Marples (Sheffield), and Mr. E. Green, each holding 425 shares. The business of the Wholesale Chemical Co. of London was incorporated about the end of 1916. The company seems to have carried on at a fair profit until May 1919, when Mr. Wrigglesworth took over the shares mentioned, and increased the capital to 20,000*l.*, and the name of the company was then altered to its present style. The following businesses were also taken over—viz., E. H. Wrigglesworth, chemical merchant; E. H. Wrigglesworth & Co., fly-gum manufacturers; Job Day & Co. Packing Department, Leeds; I. Andrews (Betorl-Balm); and Chivers (Cinderen). The businesses were takes over by the company from Mr. Wrigglesworth and Mr. George Davison for 10,000 ordinary shares. Accounts were prepared for the period ending July 31, 1920, showing a turnover of 86,130*l.*, with a gross profit of 15,519*l.* and a net profit of 266*l.* Various changes took place on the board, and it was stated that a large amount of money had been sunk in altering the building for the purposes of a manufactory. During the past six months heavy losses had been incurred both in the chemical merchanting and in the manufacturing department, amounting to over 6,500*l.* This, of course, was mainly attributable to the great slump in trade and chemical prices. After the meeting had fully discussed the position it was decided, in the interests of the creditors, to allow the voluntary winding-up to continue, as there were good prospects of the business being sold as a going concern, and an advisory committee was also appointed to act with the liquidators.

# The Profiteering Act.

### Notes.

A Reasoned Protest.

The Chemical and Dyestuff Traders' Association are in correspondence with the Profiteering Act Central Committee in reference to the conference on irregular trading and the inquiry now going on into the distribution of commodities through ordinary trading channels. With respect to a table of transactions prepared by the Committee and described as "typical," in which "a commodity in general use passed through twelve hands before reaching the customer," it is pointed out by the Association that the Committee do not state what the commodity is, where the transaction took place, or out of what total number of transactions this particular one has been selected, while the date of the first transaction is entered as "unknown." After commenting upon the vagueness of the particulars and the danger of generalising from abnormal incidents, the Association state :

Any attempt to develop a concerted attack on the merchant trading section of the community would be greatly and generally resented, especially if it is done in a way that might create a prejudice against them by bringing out abnormal transactions from an abnormal period without regard to the fact that such abnormal conditions produced a hot-bed from which all sorts of mushroom growths sprang up. Many of these growths had a brief but very expansive life. At times it looked as though they were rather encouraged than exterminated by the controls. But now that trade is approximating to a sound base again and to a more nearly normal price-level, it will be found that legitimate traders and merchants will once again play a valuable and indeed essential part in the effort to regain and maintain our commercial supremacy at home and abroad. Furthermore, it would be found upon investigation that the trader or merchant is, upon an average, quite content with a margin of profit that makes him, as a distributing medium, far less costly, as he is certainly far more efficient than any other means would be either to the makers or to the consumers. If by "middlemen" the Conference means the speculator or exploiter, by all means exterminate him, and our Association will gladly assist. If, however, by "middlemen" the Conference means the merchant trader, then assist and encourage him if trade is to be revived.

### Complaints.

Bradford.—At the sitting of the Profiteering Committee on February 18, it was alleged that Mr. E. Hoyle, chemist and druggist, Tyrrel Street, charged, on three different occasions, 2*s*. for a tin of Lime Phosphate, a similar tin being bought at another shop in the city for 3*d*. A further complaint was heard with regard to aspirin. A purchaser sent for a 25-tablet bottle, for which 1*s*. was charged. At another chemist's shop a similar bottle was purchased for 5½*d*. The facts were admitted by the respondent, but it was stated that he sells two sizes of aspirin tablets—one containing twenty-five and another thirty. The one purchased was a 30-tablet bottle. The price of the former was 10½*d*., while the latter was 1*s*. They cost him 5*s*. per dozen bottles wholesale; the Lime Phosphate cost him 9*s*. per dozen tins. He contended that under the circumstances he had not charged an excessive price. His rent had been increased from 100*l*. to 230*l*. during the war. Upon the chairman of the Committee counting the aspirin tablets, it was found that the bottle contained only twenty-nine; the respondent attributed this to an accident. The Committee decided that the prices charged had been excessive, ordered 9*d*. to be refunded on each of the tins of Lime Phosphate, and recommended a prosecution. The case was defended by the Chemists' Defence Association, Ltd.

Westminster.—At the sitting of the Profiteering Committee on February 23, a complaint in respect of a charge for a prescription by a company of chemists in Regent Street, W., was down for hearing. The chairman announced, however, that the complainant had not put in an appearance, and the case would therefore be dismissed.—At the same sitting, Williams & Elvey, chemists, 8 West Halkin Street, S.W. 1, were respondents in a case in which it was complained that they had charged 4*s*. for a quart of "commercial" methylated spirit, which could be bought elsewhere for 3*s*. The complainant, in answer to the chairman, said he provided the bottle. Mr. C. H. Kirby (Neve, Beck & Kirby), instructed by the Chemists' Defence Association, Ltd., represented the respondents. Mr. Kirby explained that the spirit in question had cost the firm 13*s*. 4*d*. a gallon on October 25, 1920, so that they sold for 4*s*. what had cost them 3*s*. 4*d*. The chairman said that the price quoted by "Harrods' Weekly News" the same week as this transaction was 10*s*. 6*d*. a gallon. Mr. Kirby submitted the price list of The British Drug Houses, Ltd., for last October, showing methylated spirit quoted at 12*s*. 9*d*. a gallon. The London Chemists' Retail Price List for November gave the price as 2*d*. per oz., or 2*s*. 6*d*. a pint. The Chairman : The British Drug Houses are not manufacturers of the spirit, are they?—Mr. Kirby : They are a similar firm to the one from which my clients obtained their supplies. In reply to the chairman, Mr. Kirby added that the price quoted by The British Drug Houses was subject to either 2½ per cent. or 5 per cent. discount. The Chairman : What did the previous consignment cost?—Mr. Kirby : The same price. The Chairman : How do you account for Messrs. Harrods being able to sell at 10*s*. 6*d*. what you pay 13*s*. 4*d*. for?—Mr. Kirby : The price fluctuates, and Messrs Harrods may have bought the spirit some time ago. The Committee decided that the charge was reasonable, and dismissed the complaint.—At the same sitting, Mr. T. Kempston, chemist and druggist, 369 Oxford Street, W. 1, appeared in answer to a complaint that he had charged 3*s*. for making up a prescription, for which the charge at a Sheringham chemist's was 1*s*. 9*d*. Mr. C. H. Kirby, who represented the respondent, said that the only evidence in support of the allegation that the charge was unreasonable was that some one in Sheringham had charged a lower price. Mr. Kempston had therefore sent to two other shops in his own neighbourhood, and in one case the charge was 3*s*. 3*d*. and the other 3*s*. The prescription was as follows :

| | | |
|---|---|---|
| Potas. brom. ... | ... ... | ʒj. |
| Tinct. buchu ... | ... ... | ʒj. |
| Tinct. nucis vom. | ... ... | ♏ij. |
| Aq. ... ... | ... ad | ℥viij. |

The cost of the ingredients was 4*d*., and another 4*d*. must be added for the bottle. As some members of the Committee seemed surprised at the charge for the bottle, Mr. Kirby pointed out that it was rather cheap. For the dispenser's time, namely, a quarter of an hour, the charge was 6*d*. The overhead charges at this shop were exceedingly high in proportion to the takings, the rent being 325*l*. and salaries 649*l*., and with other expenses the total payments which had to be met by Mr. Kempston before he could make a profit amounted to 1,305*l*. per annum. This worked out at about 10*s*. an hour. Mr. Kempston estimated that half his returns were for dispensing, and therefore half the expenses would be properly chargeable under that head, making 1*s*. 3*d*. for the quarter of an hour in this case. Then there was the profit of 33⅓ per cent. Mr. Kempston said that the charge for the prescription in pre-war times would be 2*s*., or 2*s*. 6*d*. Mr. Kirby pointed out that the charges made by other firms in the locality were important. The chairman said the Committee considered that the charge in this instance was very much too high, and should not have exceeded 2*s*. 6*d*. Owing to technical difficulties they would not order a prosecution, but 6*d*. must be refunded to the complainant.

### Prosecution.

At Cardiff Police Court, on February 9, Thomas Morgan, agent, 281 Gladstone Road, Barry, was summoned for having sold to A. G. Collins & Brother, Shamrock Works, soda crystals at an unreasonable price. It was stated that the defendant bought the soda crystals at 6*l*. 10*s*. a ton, and sold at 9*l*. a ton. Messrs. Collins resold at a higher price and were fined (*C. & D.*, II., 1920, p. 1522). No evidence was called for the defence, but it was pointed out that retailers were selling the soda crystals at 1½*d*. per lb. The magistrate held that the price was unreasonable; but that justice would be met by defendant paying the costs of the case.

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# British Industries Fair.

**London, February 21 to March 4.**

More accessibly housed than its predecessor of last year, the London section of the British Industries Fair, which opened at the White City, W. 12, on February 21, should prove at least as attractive. The Department of Overseas Trade has issued 95,000 invitations to home buyers and 60,000 to merchants in 112 foreign countries. The floor-space occupied amounts to 240,000 square feet, or about three times the area of the first of these Fairs, held in 1915. Commercial "missions," the members of which are the guests of the Government, have been sent from several countries, and are to visit Birmingham, Manchester, and Glasgow, in addition to the London section. So far as products of interest to chemists are concerned, this year's entries are fewer than those of last year; but the majority are well placed near the main entrance to the Fair, and sectional plans show the position of anything that the visitor wants to find. The alphabetical list of exhibits is printed in eight languages, and the general arrangement of the catalogue is excellent; but an alphabetical list of exhibitors might with advantage have been included. In the following paragraphs we summarise our impressions of exhibits associated with the drug-trade.

### Drugs, Chemicals, and Proprietaries.

Frederick Allen & Sons (Poplar), Ltd., have placed specimens of burnt alum and fused calcium chloride on the forefront of their stand, and these are typical of the smaller samples displayed on the shelves. The stand is less elaborate than some that we visited, but the chemicals exhibited will bear comparison with any at the Fair. The company specialise in the manufacture of mineral acids.

Stafford Allen & Sons, Ltd., have an unusually full and interesting range of their drugs and essential oils on view, spaced out so as to be examined with the maximum of convenience. Their specimens of leaves "need no bush"—in two senses of the familiar proverb; even the youngest student could identify them without a label. Their crystals and scale preparations are of the customary lustre, and their essential oils incidentally throw light on an industry of very wide application. It is interesting to learn that Messrs. Stafford Allen are finding a considerable market for essential oils redistilled by them from native foreign products; although these do not take on the characters of the corresponding English oils, they lose their grossness in a remarkable degree. If there are any chemists left who sell ground pepper and other spices, they will not fail to admire the series of grades shown—an object-lesson in "opt.," "elect.," and "super."

W. J. Bush & Co., Ltd., are, in addition to showing perfumes, exhibiting some excellent samples of fine chemicals. Both exhibits are well arranged. Their well-known Potter & Moore's lavender water, frozen eau de Cologne, and frozen lavender water occupy prominent positions on the stand (which is in charge of Mr. W. B. Kelly). There is also a good display of Buisson Frères' "Oriental Poppy."

F. C. Calvert & Co.'s stand is a kind of apotheosis of carbolic acid, and should impress visitors, home and foreign, with its ingenuity. We notice that Messrs. Calvert are again supplying their tooth-paste in tubes made in England.

J. C. Eno, Ltd., have erected a variant of their original stand made for last year's Fair. Visitors will, no doubt, easily recognise the vine and the trellis-work as they approach; if we are not mistaken, they will notice that the vine is bearing more grapes than last year—symbolising, we believe, increasing business. We learn that cards of admission to the Fair are obtainable from Messrs. Eno, and that new showcards are in preparation.

Johnson & Sons (Manufacturing Chemists), Ltd., had scarcely arranged their numerous samples when we called, but the chemicals and dyes on view are of museum excellence, metol, in particular, being far ahead of the pre-war imported article. This chemical, as with "Flas powder" and most of the company's other preparation may be purchased in any quantity, small or large.

The Lanol Co. make a feature of Purazone, a pe fumed essence for spraying after dilution. A series veterinary preparations claims the attention of chemis who do an agricultural business, and our representati was shown samples of dustless sweeping powder, the u of which should save a good deal of dusting.

Sanagen Co., Ltd., have a smart display indicatir extending business. Our representative was show samples of milk-sugar made in the United Kingdom, ar had a chat about Scott's Malted Charcoal Biscuits, whic are being taken up extensively by large retailers. The biscuits, like Sanagen Tonic-Digestive Biscuits, are easi broken with the fingers and are decidedly palatable. Th received a highest award and silver medal at last year Food and Cookery Exhibition.

Thomas Tyrer & Co., Ltd., have a handsome displ of bismuth, crystallised in magnificent cubes. Oth unusual specimens are to be noticed, including two rare seen chemicals in scales—cobalt ammonium citrate a nickel ammonium acetate. Of more general interest is vegetable proteid, which has been successfully tried f feeding calves, and may possibly prove suitable for hum use.

### Toilet Preparations and Requisites.

The Anzora Perfumery Co., Ltd., have a small b well-assorted selection of their hair-cream and other toi adjuncts, including a new shampoo-powder.

Cresswell Bros. (International Sponge Importe Ltd.) have divided their stand into two parts. On major portion they are exhibiting ordinary sponges. the other part (under the style of British I.R. Spo Co.), rubber sponges are displayed. These sponges, tainable in round or oval shapes, are very absorbent, a it is claimed, will not become slimy. They are, moreov easily cleaned with boiling water.

Dubarry et Cie. have a stand in keeping with t artistic design and packing of their products. It is w nigh impossible to single out any lines for mention wi out feeling that the others have been neglected. Amo the newer "creations" may be mentioned the shavi soap in bowls. The soap is delightfully perfumed a stamped with gold lettering. Crystal figures in the fo of pierrots, idols, and other quaint things are being u as stoppers for several of their perfume bottles and a for handles for puffs.

J. C. & J. Field, Ltd., are making a special display the "Fleurs de Lys" series of toilet preparations. T packing of these articles (black and gold) is neat, quite out of the ordinary style adopted for this c of goods.

D. & W. Gibbs, Ltd., have recently added to their of toilet-preparations, which now include Ambrosial sh ing-cream, liquid shampoo, and liquid dentifrice. Anot addition is the denture tablet. This is packed in a r oblong aluminium box.

The Horton Manufacturing Co., Ltd., have a display of their liquid shampoos and other liquid so We learn that the company supply liquid soaps ei uncoloured or coloured as desired, thus assisting up-to-date window-dresser in his art.

Myers, Lumos & Co. have a large and comprehen display of manicure-sets, "Gelatix" non-inflamma combs, mirrors, and other toilet-requisites. We w shown some smart puffs with long coloured handles, wh should prove an attraction to retailers in search o novelty.

The Palmolive Co. have an attractive display of t soap and other preparations. Prominence is accorde the liquid shampoo, put up in tall, handsome bottles, a glowing account of its efficacy is given by the compa representative.

L. F. Poole has one of the most artistic displays of that we visited, comprising ivory mirrors, puff-bo manicure-sets, and other toilet-adjuncts. It is diffi to imagine this kind of work being done better.

Price's Patent Candle Co., Ltd., have filled t large stand with a judicious blend of novelties and

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vourites. Among the former, our attention was drawn "A Summer Night," a perfume that evaporates slowly thout developing any unpleasant by-products, and to White Geranium" soap, for which, we understand, ere is a growing demand.

Henry C. Quelch & Co. occupy a stand—or, more rectly, a showroom—delightfully designed after the f-timbered style of the early Jacobean period, the y modern suggestions it contains being the scheme lighting and, of course, the goods. Manicure-sets, ging in price from a few pence to 40*l.* each, are pre-ninant, and the balance of the exhibit comprises toilet uisites of many kinds and ladies' "work-companions." a matter of accuracy, it may be recorded that on the of our visit 153 styles of manicure-sets were on w. Particulars of most of these may be seen, by those cannot visit the Fair, in an illustrated price-list. s not surprising to learn that this remarkable stand been designed by an expert in the craft.

orbo Rubber Sponge Products, Ltd., have a striking lay of their well-known sponges and rubber-sponge ducts, indicating confidence in the buying capacity heir visitors.

A. Stokes & Co., Ltd., have an exhibit embracing t of their lines, the Lustressa series of toilet prepara-s being prominent.

illiam Toogood, Ltd., have a large and well-assorted lay of packed goods, consisting mainly of toilet arations. Various kinds of bath-crystals form a inent feature, and the star-like arrangement of d goods on a dark background is very effective.

### Glassware and Brushware.

e Amalgamated Glass Bottle Works, Ltd., have cted at their stand a sample of almost every type lass bottle used in the drug-trade, as well as kinds in other industries, and their exhibit is a pleasing

e Anglo-French Manufacturing Co. specialise in cal glassware, and the samples we inspected at their l strike us as being well made and of good quality.

W. Bonell & Co. have a smart display of hair-ies, flesh-brushes, dog-brushes, and others that ists may with advantage stock.

sst & Marlow have taken advantage of the publicity ly given to anthrax to make a striking display of "Busmar" shaving-brushes, which, like all others e firm's manufacture, are guaranteed anthrax-free. aste material in bone is ground up as an ingredient essrs. Busst & Marlow's artificial manures, with ing reasonableness of price all round.

ert B. Clarke & Co. have an exhibit comprising nds of lamp-blown glassware, hypodermic syringes, bes, pipettes, nasal douches, etc. They are also g the "Compactum" gas-analysis apparatus. This, name implies, takes up very little space.

G. Kent & Sons, Ltd., have an excellent and well-display of hair-brushes, tooth-brushes, and other The samples of bristle are worth examining, and minutes' chat with the representatives in charge the impression that the company are constantly ing their scope.

Lavista & Freeman have a capital display of g-brushes (with which the Fair, as a whole, is sur-ly well provided), hair-brushes, and other brush-and their stand is worth a visit.

J. Moncrieff, Ltd., attract the visitor's eye with lengths of glass tubing of very large calibre, ently mounted on a stand. Their chemical glass-s displayed in the usual variety and comprehen-s.

Scientific Supplies Co., Ltd., make all kinds of tech-lassware apparatus, and the samples on view at and are undoubtedly the products of skilled work-The company will quote for and make any special us required.

Turton & Howard, Ltd., have a wide range of are at their well-placed stand, and considerable has evidently been expended in its arrangement. vory goods are the centre of attraction.

Among other manufacturers showing in this section are: Cooper Bros. (shaving-brushes), Henderson Bros. & Co., Ltd. (hair-brushes, etc.), Hyposol, Ltd., M. Neuhafer & Levi, Ltd. ("Silwyr" brushes), United Glass Bottle Manufacturers, Ltd., Wood Brothers Glass Co., Ltd.

### Miscellaneous.

Brown & Son, the well-known still and steam-plant manufacturers, call the visitor's attention to their patent self-sealing cover for autoclaves. In place of the customary dozen or so of screws to be manipulated, a single nut effects the closing or opening of the apparatus. Two or three sizes are on sale.

W. Butcher & Sons, Ltd., are showing, in addition to cameras, passe-partout mounts, etc., a carbine film-developing tank, for which it is claimed that it combines simplicity with efficiency. The whole of the process of developing and fixing may be carried out in daylight. It is made in three sizes—No. 1, for films $1\frac{5}{8}$ in. by $2\frac{1}{2}$ in.; No. 2, for films 2 in. by 3 in.; and No. 3, for films up to $2\frac{1}{4}$ in. by $3\frac{1}{4}$ in.

A. S. Cartwright, Ltd., who are able to tell us that their export business is far from stagnant, are showing samples of their embossed aluminium screw-caps and measures. The company also manufacture clips for collapsible tubes.

Eburite Paper Co. (1919), Ltd., have an imposing display of containers in many shapes and colours, the decorative effect of which thus massed is quaint and pleasing. As an aid to window-dressing their products are worth study.

T. N. Evans & Co., Ltd., are the manufacturers of the "Betterway" movable letter signs. The letters for these signs are made on a self-spacing principle, and are so locked in as to prevent displacement by vibration. The letters are supplied in a variety of colourings and languages. The company have recently received awards at Glasgow, London, Norwich, and Bristol.

The Ever-Ready Co. (Great Britain), Ltd., have taken advantage of an excellent corner-position to make a varied display of electric pocket-lamps, hand-lamps, bells, and other interesting things. We were shown, *inter alia*, a new style of portable flash-lamp which can be taken into a warehouse, for instance, and hung on a nail while in use.

J. G. Franklin & Sons, Ltd., have a smart display of indiarubber hot-water bottles, soothers, syringes, cushions, and other articles in regular demand.

The Fulham Pottery and Cheavin Co., Ltd., give special prominence to "Adaptable" hot-water bottles. Other stoneware manufactured by the company, such as extract-pots, is guaranteed to be made from the best English clays, and is glazed inside and out. They have also a good range of filters, of a type specially designed to replace Continental makes, on view at the stand.

Hukin & Heath, Ltd., have an attractive stand, on which they are showing various designs of shaving-mirrors. These are well made and finished.

J. G. Ingram & Son, Ltd., have their customary all-round selection of hot-water bottles, air-cushions, and the thousand-and-one things that they manufacture. In the course of conversation on the life of a hot-water bottle, a *C. & D.* representative was told of a case in which one returned to Messrs. Ingram was found to be nine years old, and it had been in regular use.

John Milner & Co. have such a variety of articles (surgical knives, scissors, razors, etc.) that the quality and workmanship of these articles is not realised at a first glance. They repay inspection.

Napper & Davenport are showing, among other things, aluminium containers and fittings for toilet sets, screw-caps, and clips for collapsible tubes.

Nobel Industries, Ltd., have arranged their stand in an effective manner, so that the gold-plated and nickel-silver vanity-bag sets, safety-razors, and sprinkler-tops are shown to advantage. Shaving-stick cases, lip-salve cases, and similar articles in aluminium are also exhibited.

Siemens Bros. & Co., Ltd., have a stand filled from the electric cell and battery department of their well-known works. Their exhibit includes the more-generally

employed forms of electric cells and batteries for all purposes, *e.g.*, electro-medical apparatus, electrical testing, pocket-lamps, and lighting equipments for bicycles and motor-cycles. Their "Inert" batteries, prepared for subsequent charging in any climate, form one instance of the care with which every detail has been thought out.

Thames Paper Co., Ltd., are making a feature of paper boards (of which they are the actual manufacturers) suitable for making cartons and boxes.

Watson, Son & Co. are making a special display of the "Jigger" patent pocket-knife, which, in addition to being a knife, is also a corn-razor, nail-file, cigar-cutter, crown-cork opener, etc.

The Wilkinson Cutlery Co., Ltd., attract the attention of the passer-by with a giant model of a safety-razor. Their stall is a capacious one, displaying sets of razors, gold-plated and otherwise, to advantage. It is worthy of mention that Messrs. Wilkinson are the only exhibitors at the Fair who specialise in razors.

Willis, Low & Druiff, Ltd., have a neat display of their well-known perfumed moth-brick, nail-polish, and concentrated perfumes.

Other exhibitors whose stands are worth a visit are: The Berkefeld Filter Co., The British and Foreign Bottle Co., Ltd., British Cellulose and Chemical Manufacturing Co., Ltd., F. Darton & Co. (thermometers), Doulton & Co., Ltd., William Gowlland (1916), Ltd. (lenses), The Graham Lambert Manufacturing Co., Ltd. (safety-razors), Grimwades, Ltd. (stoneware), Samuel Jones & Co., Ltd. (tape machines), The Leto Photo Materials Co. (1905), Ltd., The London Filter and Pump Co., Ltd., D. A. Lowthine & Co. (photographic albums), C. T. Maling & Sons (stoneware), Mansell, Hunt, Catty & Co., Ltd. (bottle-caps and containers), L. Oertling, Ltd. (balances), Optical Manufacturers, Ltd., Ozonair, Ltd., Paper Tube and Box Co., Ltd., F. & R. Pratt & Co., Ltd. (opal jars), James Spicer & Sons, Ltd. (paper and containers), Thornton-Pickard Manufacturing Co., Ltd., Valerie & Co. ("Gwenita" toilet-requisites), Wellington & Ward, L. Woolf.

# Westminster Wisdom.

**By the "C. & D." Parliamentary Representative.**

### Dentists Bill.

Asked on February 21 when the Dentists Bill is to be introduced, the Minister of Health said that a definite answer would be given if the question is repeated in a fortnight.

### Proprietary Medicines Bill.

The redrafted Proprietary Medicines Bill is not yet ready. It is reported that owing to Lord Astor's indisposition there may be some delay in proceeding with the Bill in the House of Lords.

### Summer Time.

The Home Secretary stated in the House of Commons, on February 21, that the Government proposes to introduce summer time this year from midnight on Saturday-Sunday, April 2-3, to midnight on Sunday-Monday, October 2-3.

### Fixed Date for Easter.

A Bill has been introduced in the House of Lords by Lord Desborough to fix a date for Easter. The Bill provides that in 1922 and in all subsequent years Easter Day shall be kept and observed on the second Sunday in April. All other feasts and fasts dependent on Easter shall be kept on dates ascertained by reference to this fixed Easter, except Advent Sunday, which is to remain unchanged.

### Alleged Suppressing of Documents.

Captain Loseby, in the House of Commons on February 21, succeeded, after Government refusal, in obtaining the appointment of a committee to inquire into alleged irregularities in the accounts of the Ministry of Mu tions An affidavit was read supporting the charge, sw to by "Thomas Jones, of 17 Bloomsbury Square, in e County of London, Civil servant, temporarily emplo in the ledger accounts department of the Ministry f Munitions." The name given was stated to be fictiti

### Testing Clinical Thermometers.

Replying to a question regarding the testing of clin thermometers (*C. & D.*, February 19, p. 57), Sir P. Ll Greame said the testing of thermometers of all kinds as always been undertaken by the National Physical Lab tory, since before the war, on payment of a fee. he Ministry of Munitions issued an Order in October 19 for the administration of which the Board of Trad is now responsible—making the testing of clinical the meters compulsory. This testing, as required by Order, is performed by the National Physical Laborat

### Imports of Dyes and Intermediates.

Sir P. Lloyd-Greame, Parliamentary Secretary to Board of Trade, stated on February 21, in answer a question by Major Barnes, that persons applying licences to import articles controlled by the Dyestf Act are told that it will facilitate the granting of lic if it is clear that the goods are ordered for people require them, but it was part of the understan insisted on by the House, that the licensing shoul left very largely in the hands of the Licensing Commi which is wholly representative, and he would be sor to interfere with it in the discharge of its duties.

Major Barnes asked the President of the Board of Tr if an import licence for 2 cwt. of salicylic acid (B. required for the purpose of making medicated ointm has been refused; and if he will say in the manufa of what dyestuffs, colours, or colouring matters sali acid (B.P.) is used.

Sir P. Lloyd-Greame replied: I understand from Dyestuffs Advisory Licensing Committee that the pli cants in the case referred to are being informed th they can satisfy the Committee that the consignme of B.P. quality and is to be used solely for medic purposes, and will undertake to produce proof, i quired later, that it has been so used, the Committe be prepared to reconsider their decision.

Sir William Bull asked the President of the Bo Trade why the list of prohibited goods under the stuffs Act is issued secretly to the Customs autho but withheld from the traders, who are greatly im moded thereby.

Sir P. Lloyd-Greame replied: A provisional list of modities covered by the Dyestuffs (Import Regul Act was furnished to the Customs for their gui pending the preparation of a full and detailed list i sultation with the Licensing Committee. This lis has now been completed and is in the hands of the pri and will be generally available shortly. I do not i that any appreciable amount of inconvenience has caused to importers by the slight delay which has occu as all inquiries as to whether any particular comm is or is not included have been answered immediate

Major Mackenzie Wood: May importers impor substance that is not included in that list?

Sir P. Lloyd-Greame: I should like to safeguard on one point. It is possible that there are certain cal cals which come in under one name, and it is very as to call them by an entirely new name and sell th the same chemicals. It would be obviously impossi allow the Act to be evaded by a mere subterfuge o kind.

Major M. Wood: If it is a different substance alto and there is no substance included in the list even a different name?

Lieut.-Colonel A. Murray: Who is to be the final of the right name to apply to the chemicals?

Sir P. Lloyd-Greame: The final judge is, I thin Law Courts.

Bombay mace is botanically a mace, and closely res true mace in appearance. It differs from true mace it has practically no flavour and is useless as a spice.

# Protecting Chemical Manufactures.

## A Short Statement.

'HE Association of British Chemical Manufacturers ave now issued the following short statement of the iews of the Association regarding the need for protect-ıg chemical manufacturers.

We extended our research and manufacturing plant at e urgent appeal of the State during the tremendous years at followed 1914, in order to secure those essential pro-ıcts of science without which victory could not be attained. he full record of wartime achievements in the sphere of ıe chemicals would read like a romance were the full story disclosed. This key industry is now endangered, ıd unemployment is rife in it owing to the flood of ıports from abroad which, in other circumstances, the esent condition of the exchanges makes devastatingly ssible. We desire to submit to public knowledge the llowing facts:

1. The application of chemical science to industry is a cessary factor for the preservation of our world position commerce. It is also true to say not only that the chemist d the laboratory are in the first line of national defence, t are pivotal in the development of our industrial and mmercial resources and wealth.

2. At very considerable cost, essential plant was erected ring the war years, and all of it can now be put to aceful purposes for the continuance in this country of a e-chemical industry not inferior to Germany's. But, der the present unfair economic circumstances, this plant ıst become idle and useless, unless the State takes easures for its safeguarding.

3. The fine-chemical industry, mobilised and expanded the hour of the nation's needs, provided during the war—give a few examples—(*a*) essential medicinal preparations naval, military, and civilian hospitals; (*b*) the higher ms of explosives and gases; (*c*) photographic chemicals aerial use; (*d*) research chemicals, without which the velopment of many new industrial processes would have en impossible.

4. British science is no whit inferior to that of competing tions, nor are British chemical manufactures inferior in ality.

We feel it is our bounden public duty to make known the country the national importance of an industry which ndeed a key to the unlocking of many doors of economic alth in the future.

afford Allen & Sons, Ltd.
Boake, Roberts & Co., Ltd.
oots Pure Drug Co., Ltd.
ıe British Cellulose and Chemical Manufacturing Co., Ltd.
ıe British Cyanides Co., Ltd.
e British Drug Houses, Ltd.
itish Vegetable Products, Ltd.
rroughs Wellcome & Co.
J. Bush & Co., Ltd.
J. M. Collett & Co., Ltd.
Evans Sons Lescher & Webb, Ltd.
Grays Dyes and Chemical Works.
Hopkin & Williams, Ltd.
Howards & Sons, Ltd.
Johnson & Sons (Manufacturing Chemists), Ltd.
London Chemical Works, Ltd.
May & Baker, Ltd.
Thos. Morson & Son, Ltd.
Pierson, Morrell & Co., Ltd.

## Wholesale Druggists' View.

he following letter has been sent by Evans Sons Lescher & Webb, Ltd., to Mr. W. J. U. Woolcock, general manager of the Association of British Chemical Manufacturers:

e much regret to find that a letter has appeared in the ent issue of THE CHEMIST AND DRUGGIST, which was inally a communication from us to the Chemical and Drugstuff Traders' Association. This letter was written by of our directors, who was not aware of the policy of company in this matter, and it was never intended publication. We desire now emphatically to state that letter in THE CHEMIST AND DRUGGIST does not represent views of our board in connection with the Key Industries Bill. Our policy has been to support the action of A.B.C.M., and Mr. Lescher, our director, was asked to all he could to further such action. We should be glad ou would let these facts be known to the members of A.B.C.M., who are interested in this matter.

Mr. Thomas D. Morson, managing director of Thomas Morson & Son, Ltd., chemical manufacturers, in a letter to the "Evening Standard," gives cogent reasons why British fine-chemical makers must be given a temporary measure of "protection." He says: How intimately the two subjects unemployment and anti-dumping are associated in the case of the "key" industries is not yet realised by the ordinary public. The power of our defence in any future war will depend very largely on the extent to which we have developed and organised our chemical factories. A chemical factory as a potential "arsenal" is a great asset to the nation, inasmuch as it is productive (in the best sense of the word) in peace times, and may easily be converted to the purposes of destruction only when the necessity arises. The products of chemical industry enter into practically every operation of daily existence. And the pivot of all is the fine-chemical industry. Fine chemicals may be described as the vitamines of industry. Just as food without vitamines may sustain, but will not nourish, human life, so industry may live, but cannot flourish without an adequate supply of essential fine chemicals. This is the reason why the manufacture of fine chemicals is a "key" industry. There is substantial evidence that the Germans are adopting a deliberate policy of under-selling the British manufacturer. Chemicals they make are not infrequently offered by the German makers and their agents in this country at prices many per cent. below pre-war figures. On the other hand, those chemicals, the manufacture of which has not yet been commenced by the British manufacturer, are being sold at prices many per cent. above pre-war figures, and this in spite of depreciated German exchange. For reasons of national safety this "dumping" of fine chemicals must be stopped. It is a deliberate attack upon our future arsenals, an insidious form of war upon the experts who man them. Given fair treatment now, the industry can become a national asset of the greatest value in peace or war.

## Mr. C. A. Hill's Letter.

"The Times Trade Supplement" publishes the following letter from Mr. C. A. Hill, managing director of The British Drug Houses, Ltd.:

The present position of the fine-chemical industry and what the possession of this industry means to the nation are matters of such grave concern that a brief statement on the subject is of public interest.

During the war it seemed as if we in the United Kingdom were at last starting a new era in which the value of chemistry would be realised, and the chemical industry, particularly the fine-chemicals branch, would be developed in this country, so that we should never again be, as we were in August 1914, at the mercy of Germany.

Fine chemicals comprise medicinal synthetic remedies, analytical and research chemicals, photographic chemicals, and synthetic perfumes and essences.

The manufacturing operations involved, whether the scale of manufacture be large or small, call for a high degree of skill and special training. Considered alone, each one may seem a small thing; taken collectively, they constitute an industry which gives employment to hundreds of chemists and thousands of workpeople, and on which very many other industries depend.

The fine-chemical industry affords a training ground for technical and industrial chemists which is without rival in any industry. Research and analytical chemistry are absolutely dependent upon the supply of pure chemical substances. At the present time British makers of fine chemicals have already available between 2,000 and 3,000 pure chemicals for research and analysis, and are each week adding to this number; and the last thing which anyone desires is to hinder research in any shape or form.

The use of synthetic organic substances in medicine has attained great dimensions and is firmly established. The importance of this branch of fine-chemical industry was sharply brought home to us in 1914, when our chemists had to set to work to synthesise salvarsan, novocaine, and cocaine, and other vitally important drugs. Medical authority has recently endorsed the writer's view that the expansion of an organic chemical industry is essential to the development of bio-chemistry and therapeutics.

The British fine-chemical industry was established as a war emergency measure. When war broke out it was realised that there was no fine-chemical industry to speak of in this country, and it was discovered that you could not

successfully wage war without fine chemicals. Every industry is in one way or another dependent upon them; the manufacture of guns, shells, and other munitions requires them; while gas warfare, both offensive and defensive, practically consists of fine chemicals. Manufacturers set to work, giving Germany twenty-five years' start. Capital was invested, "plant" put down, chemists trained. The chemicals required during the war were all produced. From salvarsan to saccharin, everything which was asked for was supplied.

But the point is that the work was done under war-time conditions, and speed, not economy, was the chief object. When the Armistice came, fine-chemical manufacturers were not ready to compete with their Continental rivals, who had been developing their industry for years and years. Since the Armistice things have been very difficult; development in one way or another has been hampered at every turn; uncertainty as to the Government's intentions has bred lack of confidence; E.P.D. has been a hindrance to this young industry; and the "Sankey judgment" has led to the flooding of the market with German chemicals at prices below the cost of production in this country.

It has all along been promised that fine chemicals should receive assistance for a period of years following the termination of the war, to enable the industry to stabilise itself under peace-time conditions. Dyes and fine chemicals are indissolubly linked together; in fact, dyes are really a special group of fine chemicals. The fine-chemical industry elaborates the otherwise useless by-products of the dye industry. It was understood that fine chemicals would be protected along with dyestuffs, but they were excluded from the Dyestuffs Bill and relegated to the Key Industries Bill, the latter being a comprehensive measure covering all essential industries. There is a danger, therefore, that their fate may be jeopardised by being mixed up with magnetos and all sorts of things with which they have nothing on earth in common. . . .

### Dyestuffs (Import Regulation) Act, 1920.

The memorandum recently forwarded by the British Chemical Trade Association to the Board of Trade embodied complaints and suggestions received from firms interested in the dyestuffs trade The result of their representations will be issued in due course; in the meantime members are invited to submit their views on any points not already raised. It is the intention of the Association to continue their efforts until something approaching justice is obtained for merchanting interests. The Licensing Committee state that *bona-fide* samples of any products restricted under the Act will be allowed to be imported free of licence. The Committee refuse to state a definite maximum weight for such samples, but members may be guided from the fact that, under the old restrictions, samples up to 1 lb. in weight were allowed in free.

### Proposed Key Industries Bill.

The Association is keeping closely in touch with this proposed Bill, and action on behalf of members will be taken at the appropriate time. The Board of Trade are not in a position to furnish any particulars as to what form the Bill will take, but the following products will probably be covered by the Bill. This list is not official, but is a forecast:

Synthetic drugs (including antiseptics).

Synthetic perfumes and flavourings, synthetic photographic chemicals; synthetic tannins, esters and acid derivatives of aromatic hydrocarbons; alkaloids and their salts (except quinine), and the following organic chemicals: Acetamide; acetic acid; acetic anhydride; acetyl chloride; camphor bromide; cinnamic acid and its salts; ethylene bromide; formamide; formic acid and its salts; gallic acid; lactic acid and its salts; nuclein; paraldehyde; pyrogallic acid; saccharin or other substances of like nature or use; salicin thymol.

Analytical reagents; and the following fine chemicals: Barium compounds; cerium fluoride and fluorides of other rare earth metals; hydrosulphites and allied bleaching compounds; hypophosphorus acids; iron and ammonium citrate; iron tartrate; molybdic acid and its salts; phosphorus oxides and halogen compounds; salts of per acids and artificial peroxides; silver nucleinate and proteinate; tungstic acid and its salts; potassium compounds; tungsten powder and ferro-tungsten; zinc oxide; lithopone; thorium nitrate.

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## Chemical Society.

AT the meeting of the Chemical Society, held at Burlington House, London, on February 17, the President (S James Dobbie, F.R.S.) announced that the Longsta medal had been awarded to Professor J. F. Thorpe.

Mr. L. J. Hudleston (with Mr. H. Bassett) read paper entitled *Equilibria of Hydrofluosilicic Acid. Part I Mixtures of Hydrofluosilicic and Hydrofluoric Acids.* Tl titration of hydrofluosilicic acid with alkali takes a lo time until the end-point is reached, as the reacti $SiF_6 \rightarrow SiF_4 + H_2O = SiO_2 + HF$ takes place slowly. T author undertook a series of investigations to ascerta the mechanism of this reaction, and its velocity constar For these experiments vessels of pure wax were use which presented considerable difficulty both in making a in treatment. The author also referred to the fact th commercial hydrofluoric acid was found to contain a su prisingly high content of hydrofluosilicic acid, whi explains the behaviour of hydrofluoric acid in certa reactions, and mentioned that he had elicited the inform tion that the manufacturers did not test the hydrofluor acid for the possible presence of hydrofluosilicic acid.

Two lengthy papers were presented by Mr. F. W. Atac dealing with *The Structural Isomerism of Oximes. Part Criticism of the Hantzsch-Werner Hypothesis of t Geometrical Isomerism of Carbon-Nitrogen Compoun* and another on *The Structural Isomerism of Oxim Part II., Constitution of Oximes.* The first formula a vanced for oximes attributed to this class of bodies t structure $=C=NOH$; newer investigations, howev assume that the structural formula is

$$>C-NH.$$
$$\quad O$$

The many instances of isomerism among the oximes due to the presence of a labile hydrogen atom in th structure. The author proceeded to discuss the det mination of the configuration of the possible ster isomeric forms of benzoldioxime, by the possibility replacing one or more of the hydroxy groups. The autl discussed the bearing of the Hantzsch-Werner theory these findings, pointing out that this theory offers interpretation of these cases of stereo-isomerism. Tu ing to a consideration of the constitution of oximes, author referred to their nickel and palladium salts, a then dealt with the question of converting one oxime in another.

Mr. W. C. Reynolds summarised the contents of his t papers on *Interfacial Tension. Part I., The Stat Measurement of Interfacial Tension in Absolute Uni* and on *Interfacial Tension. Part II., The Relat Between Interfacial Surface Tension in Sundry Orga Solvents in Contact with Aqueous Solutions.* To det mine interfacial tension the author adopted the capill method, using a clean capillary tube, filling it with liquid possessing the highest tension, and displacing in one direction only. The author compared the surf tension of several liquids, and made the interesting ob vation that, just before becoming detached from the of the capillary, the drop contracts at the junction of liquid and the glass. Interfacial tension represents difference between the tension of two liquids, but t definition is not absolutely correct, due to the fact t at their junction we are in presence of two liqu saturated with each other. With colloids there is alw a drop in the surface tension, while with mixed orga liquids there is a change in their interfacial tension, to the liquid with the lower tension being drawn to surface. Carbon disulphide and water, the author m tioned, form an invisible, insoluble compound at the ju tion of both, and these facts are liable to upset figu the same observation is made with turpentine, the resu of the interfacial tension dropping daily.

A NEW ZEALAND investigator, Mr. G. Westbrooke, found that bees take kindly to aluminium honeycom shaped to resemble worker-cells, which are first smea over with beeswax.

# Pharmaceutical Society of Ireland.

## Council-meeting.

1 adjourned monthly meeting of the Council was held 57 Lower Mount Street, Dublin, on February 15. J. E. Connor, J.P., President of the Society, was he chair, and the following members were also present: A. J. Barnes (Vice-President), Dr. J. A. Walsh, srs. G. D. Beggs, J.P. (hon. treasurer), R. Blair, A. McLean Lee, A. Owen Wells, Charles E. Digges, . Middleton, Fred Storey, J. Carroll Culbert, Victor E. na, D. M. Watson, and John Smith.

### Absent Members.

e Registrar (Mr. A. T. Ferrall) read a telegram. t Mr. H. Lancashire, J.P., Baliymena, apologising unavoidable absence.

e Registrar also submitted a letter, dated January 21, t Mr. Walter C. Tate, M.P.S.I., stating that his er, Mr. James Tate, had been laid aside for the past weeks, and had therefore been unable to look into Dangerous Drugs Act Regulations, and adding, "He s the Law Committee will exercise acute vigilance gard to any further regulations or restrictions, and much regrets being unable to attend meeting of mittee on 23rd inst."

e Registrar had replied that the Law Committee will verything possible to secure amendments in the Dan- s Drugs Act Regulations.

### Preliminary Registration.

e following, who submitted certificates from the mediate Education Board, were admitted to Pre- ary registration: Miss Sheila A. Badger, Medical Magherafelt; Miss Eileen V. Purcell, Melba, Iona , Dublin; Mr. Patrick Murphy, Croughevoe, elstown, co. Cork; and Mr. A. J. Murray, Carrick- ss.

### Thanks for Donations.

the motion of the President, seconded by Dr. es, the thanks of the Council were given for dona- from the British Pharmaceutical Conference of "The book, 1920"; Yale University Library, "A Memoir ilobites"; and Wellcome Chemical Research Labora- , ten pamphlets.

### Reports from Examiners.

e Registrar submitted reports from the examiners the Preliminary, Pharmaceutical Licence, Pharma- al Assistant, and Registered Druggist examinations. he Preliminary examination thirty-four candidates ted themselves, of whom eighteen passed. Thirty- candidates presented themselves for the Pharma- al Licence examination, of whom fourteen passed, five honours. Four ladies presented themselves, all of passed, two with honours. Eight candidates pre- themselves for the Registered Druggist examination, f whom passed. For the Pharmaceutical Assistant ation two candidates presented themselves, and both ss.

### Election of an Examiner.

he motion of Dr. Barnes, seconded by Mr. Beggs, ecil W. Robinson, M.P.S.I., L.R.C.P. and S.I., ., T.C.D., 13 and 83 Harcourt Street, Dublin, was ted a Pharmacy examiner in place of Mr. D. ick, M.P.S.I., whose full five years in office had d.

### Elections, Nominations, etc.

following were elected as members: Mr. Wm. dson Morris, Ph.C., Cross House, Tinahely, co. w; and Mr. Peter J. O'Toole, Ph.C., Miltown y, co. Clare: and the following were nominated for rship: Mr. Daniel O'Connell, Ph.C., Mr. F. W. an, Ph.C., and Mr. D. Moffatt, Ph.C.

A solution was adopted ordering the sealing of the aceutical licences of Irene F. Storey, N. P. Mitchell, Josephine Dowling, F. P. Reynolds, J. F. Boyle, T. J. O'Riordan, J. F. Costello, Helena F. Spelman, J. Taggart, E. Hayes, J. J. Travers, J. Chute, F. W. Buchanan, and Henrietta C. Kelly.

### Minimum Pass Percentages.

Dr. Barnes proposed, in accordance with notice of motion, "That the minimum pass percentages in algebra and geometry be raised from 20 to 30." He said they had already had a discussion upon this matter, and he did not think it necessary to take up any more time in regard to it. The suggestion was one which had been made by the Government inspector a good many times in the past, and his proposal now amounted to this, that the Council were at last adopting the inspector's suggestion.

Mr. Digges seconded the motion, which was passed unanimously.

### Ex-Army Compounders.

The following notice of motion stood on the agenda in the name of the late High Sheriff, Dr. J. C. McWalter:

That a general Regulation be made as follows: Pharmaceutical Licence Examination. When the Pharmaceutical Society of Ireland are satisfied that the service of a candidate as Army compounder with His Majesty's Forces during the period 1914-1919 justifies them in doing so, they may reckon such service as equivalent to any portion of the four years' service required by Pharmaceutical Licence Regulations II., III., VIII., XIII. for candidates for the Pharmaceutical Licence as suggested in a letter from the Clerk of the Council, Dublin Castle.

The Registrar said he had had a conference with their law adviser, who had drawn up what they considered a very much better worded Regulation. But in order to pass it the Regulation on the agenda must be proposed and seconded, and the Regulation drawn up by their law adviser then proposed and seconded as an amendment.

The President said that in the lamented absence, through death, of their late colleague, Dr. McWalter, he would formally propose the motion on the agenda.

Mr. Blair seconded.

Dr. Barnes proposed as an amendment:

That a general Regulation be made as follows: If the Pharmaceutical Society of Ireland are satisfied that the service as an Army compounder with His Majesty's Forces during the period 1914-1919 of a candidate for the Pharmaceutical Licence examination is equivalent to any portion of the four years' service required by Regulation III., it shall be lawful at their discretion to allow such Army service as equivalent to any portion of such prescribed service, and for that purpose the Committee from time to time appointed under Regulation shall have full power to examine any evidence as to such Army service submitted by the candidate, and at their discretion, notwithstanding Regulations III. and XIII., to make or refuse any allowance under this Regulation, and to instruct the Registrar accordingly.

The Registrar said the Regulation on the agenda was considered to be very loosely worded, and that it might leave a loophole to bring in a candidate for the whole four years instead of what the Council meant, and that was to allow a portion of the four years on account of Army service in the Medical Corps. So the Vice-President desired them to see Mr. Meeke (law adviser), and discuss the matter with him. The amendment was the result. It left it entirely in the hands of the Council and the Committee to pass or reject a candidate.

Mr. Storey: It gives more power to the Society.

The President: Yes, it gives full power.

Mr. Storey seconded the amendment, which was passed.

### Dangerous Drugs Act Regulations.

Dr. Barnes, referring to the Dangerous Drugs Act Regulations, said that at the January Council meeting they had decided on adopting the minutes of the Law Committee to bring certain points before the Home Office. On the following Friday The Chemist and Druggist appeared with a full reprint of the Regulations, and a strong editorial article; and, in view of this, it was decided to have another meeting of the Law Committee to go more fully into the matter. As a result, further points were added to those already decided upon. He (Dr. Barnes) undertook to draft the letter to the Home Office, so as to save the Registrar so much extra work.

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When it was finished he showed a rough copy to Mr. Watson, who made some valuable suggestions as to the setting of the letter. The best thanks of the Council were also due to Mr. Watson for calling upon the veterinary authorities of the Department of Agriculture and the Farmers' Union and waking them up to the importance of the whole matter from their point of view. The co-operation of these bodies would strengthen the hands of the Society. He (Dr. Barnes) felt that if the Society got a successful hearing it would be due in a very large measure indeed to the energies of Mr. Watson in the matter, and the time he had spent on it. What they sent to the Home Office appeared in full in The Chemist and Druggist of February 5. It wound up by asking that a deputation should be received. Since that time they had heard nothing from London.

The President said their thanks were specially due to Mr. Watson and to the Vice-President for the very excellent letter which had been written. The letter had been sent to him (the President) before it had been forwarded to London; and he thought that there was no point missed in it, and that it was very ably drafted. He wished to thank both gentlemen for their kind assistance to him.

Mr. Watson said Dr. Barnes was very fond of making Irish butter. (Laughter.) There was one matter that they did desire to take credit for, and that was that the veterinary department were absolutely ignorant of the thing until the representatives of that Council told them of it.

Mr. Storey said that when the Chemists' and Druggists' Society received a letter from the Law Committee they had already taken steps and had written to the local members of Parliament and had interviewed Mr. Lynn, Mr. Lindsay, Sir William Whitla, Mr. Joseph Devlin, Mr. Donald, and also, jointly with the Ulster Retail Drug Trade Association, Captain Craig. They had also interviewed the secretary of the Ulster Farmers' Union, and pointed out to him the position of farmers under the Draft Regulations. The secretary of the Farmers' Union had taken up the matter; he had "got the wind up" when he found that a farmer could not keep laudanum or chlorodyne on his premises to treat a sick animal. They had sent statements to the Home Secretary, and had asked him to receive a deputation from the Chemists' and Druggists' Society. If the Pharmaceutical Society were sending a deputation to London it might be advisable that the deputation from the Chemists' and Druggists' Society should accompany them. These Draft Regulations practically wiped out the registered druggist.

Mr Smith said that in any discussion that took place when the Dangerous Drugs Act was going through Parliament it was pointed out over and over again that the sale of particular drugs was already controlled, and that probably no interference would be made with regard to the sale. What they wanted them to do was to leave these things in the schedule. The only difference was that the Irish schedule was not so comprehensive as the English schedule. If they had the different preparations of morphine and opium in Part I. instead of Part II., they could not sell them unless they got the signature of the person and knew the person. They would be quite agreeable to that.

While the discussion was proceeding a telegram was received from the Chemists' and Druggists' Society by Mr. Storey stating:

Home Office receiving deputation from English Society. Sir William Whitla advises joint deputation from Pharmaceutical Society and ourselves. Please get in touch with London.

It was decided to send a telegram to Sir William Glyn-Jones asking him to let them know the date and the hour when the deputation from the Pharmaceutical Society of Great Britain was being received, so that deputations representing the Pharmaceutical Society of Ireland, the Chemists' and Druggists' Society, and the drug-trade bodies in Ireland might join.

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Radium.—Continental advices state that the Czecho-Slovakia Government had sanctioned exports of radium preparations by the Joachimsthal factories.

# Personalities.

Alderman J. W. Steward, Ph.C., Bridgnorth, has bn elected a member of the higher education committee r the borough.

The Chemical Works Roermond (H. Raab & C Roermond, Holland, announce that Mr. Conrad Raab s been accorded power of procuration.

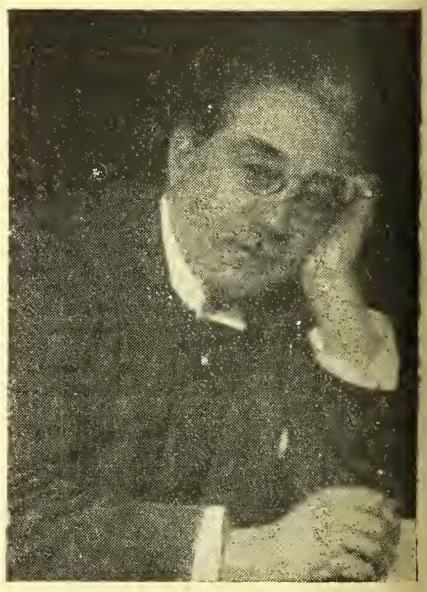
Mr. T W. Attenborough, Ph.C., St. Heliers, Jer recently delivered a lecture on "Trees of Jersey" bef the local Presbyterian Literary Society.

Mr. G. C. Clayton, a director of the United Alli Co., Ltd., has been chosen as a prospective Parliament candidate for the Widnes division of Lancashire.

Mr. Joseph M. Carrick, M.P.S.I., has been electe Fellow of the Chemical Society, Burlington Ho London, W. 1. Mr. Carrick is on the chemical staff J. J. Griffin & Sons, Ltd., Kingsway, W.C. 2.

W. Bro. J. Howard Llewellin, F.S.M.C., chemist d druggist, Milford Haven, was installed as Worshipf Master of the Cambrian Lodge, No. 464, at Haverfd west, on February 2. The installation was performed W. Bro. W. C. Llewellin, immediate Past-Master d brother of the Worshipful Master. W. Bro. J. L. Llewellin invested as his secretary W. Bro. Francis Phillips, chemist and druggist, Haverfordwest. O members present included the following pharmaci W. Bro. L. J. Meyler, Milford Haven; Bro. A. Fra New Tredegar; Bro. W. F. Johnson, Milford Haven; d Bro. G. H. Lloyd, Solva.

Mr. J. H. Raphael, chairman of Raphael's, L optical- and scientific-instrument makers, Hatton Gar London, E.C. 1, was elected, on February 18, a mem



Mr. J. H. Raphael.

of the corporation of the City of London for the w of Farringdon Within. Alderman Sir John Badde who presided at the wardmote, said he was sure t his colleagues would welcome Mr. Raphael among th In returning thanks, Mr. Raphael remarked that he t it to be an additional honour that there had been no c test. He referred in sympathetic terms to the ret ment of Mr. J. L. Grossmith (chairman of J. Grossm & Son, Ltd., Newgate Street, E.C. 1), to whom a spe expression of regret was sent from the wardmote. Grossmith retires after twenty-one years' service on Court of Common Council and thirteen years as a Dep of the ward.

## Birth.

Thompson.—At Arima, Bickley, Kent, on February 17, he wife of A. J. Thompson (R. W. Greeff & Co., Ltd.), f a daughter.

## Marriage.

Knowlson—Tonks.—At All Saints' Church, Scarorough, on February 22, Lewis Alfred Knowlson, chemist nd druggist, 36 Granville Road, Higher Broughton, Manchester, to Hilda G. Tonks, Scarborough.

## Deaths.

Chambers.—At his residence, Brookhill Overthorpe, astwood, on February 12, Mr. James Chambers, Ph.C., ed seventy-eight. Mr. Chambers served his apprenticeip with Kiddy & Ashton, Belper, and gained further perience at Torquay and with Clay & Abraham, Liverol. He passed the Major examination in 1864 after udying at the Bloomsbury Square School of Pharmacy, d commenced business at Eastwood five years later. ere he established an extensive connection in dispensing d counter prescribing, together with a wholesale departnt, and personally conducted his pharmacy for fifty ars. On his retirement, the retail business and the olesale were separately disposed of, the latter to a vate company. Mr. Chambers had been in failing alth for more than twelve months, but was confined to bed only during the last week of his life. He is sured by a widow and three children.

Cragg.—At 132 Lawrence Road, Southsea, on Febru- 3, Mr. Herbert Cragg, chemist and druggist, aged rty-five.

Ferrier.—At Hillwood, Ronaldshay Crescent, Grangeuth, recently, Gertrude Allison, youngest daughter of James Ferrier, chemist and druggist, aged two.

Moffitt.—At his residence in Belfast, on February 21, denly, Mr. Thomas Nicholson Moffitt, Ph.C., member of the Council of the Pharmaceutical Society of Ireland. Mr. Moffitt served his apprenticeship with S. Connor & Sons, Newry, afterwards becoming their senior assistant; he was also for some time with Wheeler & Whittaker, High Street, Belfast. He passed the Licence examination in 1884, and shortly afterwards commenced business on his own account in Crumlin Road, Belfast, where he quickly made for himself a high reputation. When the British Pharmaceutical Conference met at Belfast in 1898 he was mber of the local Committee, and two years later as elected to the Council of the Pharmaceutical ty of Ireland. Mr. Moffitt was present at the meetf the Council on February 8, when an adjournment place in consequence of the death of the late Dr. McWalter. He felt unwell during the following but was in his pharmacy as recently as February 19, days before his death, and hoped to resume work t immediately. Mr. Moffitt was prominently assoc with the Ulster Retail Drug Trade Association, ich he had been a Vice-President; he also took an interest in Freemasonry. He leaves a widow, three and a daughter.

Dr. T. N. Moffitt, Ph.C.

Stopforth.—At 77 Claremont Road, Liverpool, on Feb ary 15, Mr. John Stopforth, senior partner of Rowd & Co., wholesale druggists and oil merchants, Vauhall Road, and eldest son of the late Mr. Richard Stopforth, aged forty-one.

Wilson.—At Great Harwood, on February 20, Mr. James Wilson, chemist and druggist, 68 Glebe Street, aged fifty-five. Mr. Wilson, who was a native of Hurst Green, Blackburn, qualified in 1886, and shortly afterwards opened in business in Queen Street, Great Harwood, subsequently removing to Glebe Street. Mr. Wilson took but little part in public affairs. He joined the North-East Lancashire Chemists' Association and became a director of the Union and Deveron Mills. He was unmarried.

Odling.—At 15 Norham Gardens, Oxford, on February 17, Mr. William Odling, F.R.S., M.A., M.B., Ph.D., honorary Fellow of Worcester College, Oxford, and late Waynflete Professor of Chemistry, aged ninety-one. Dr. Odling, who was the son of a London surgeon, studied for the medical profession at Guy's Hospital, where he was appointed demonstrator in chemistry in 1850. Although he graduated as a bachelor of medicine in the following year, and was subsequently elected a Fellow of the Royal College of Physicians, his interests lay in chemistry. He became a Fellow of the Chemical Society in 1848, and after a period of study under Gerhardt in Paris, returned to Guy's as lecturer on chemistry in 1863. Five years later he succeeded Faraday as Fullerian Professor of Chemistry at the Royal Institution, and in 1872 he was appointed Waynflete Professor of Chemistry at Oxford in succession to Sir Benjamin Brodie, Bt. He held this office for forty years, publishing at intervals books and papers on chemical subjects. It was he who proposed the use of the terms "monad," "dyad," etc., for indicating the valencies of the different elements, and he suggested the words "artiad" and "perissad" for those which had even and odd valencies respectively. Dr. Odling was an excellent speaker and lecturer, and possessed a considerable knowledge of the fine arts. In 1898, and again in 1910, he was one of a few past-Presidents of the Chemical Society—all of whom had been Fellows for at least fifty years—who were honoured at banquets (*C. & D.*, II., 1898, p. 815; II., 1910, p. 754). On the latter occasion he was the senior of five distinguished men of science, the others being Sir Henry Roscoe, Sir William Crookes, Dr. Hugo Müller, and Dr. A. G. Vernon Harcourt. The loss of Dr. Odling will be regretted by more than one generation of students at Oxford, where for some years he generously relinquished his stipend in order to assist Worcester College. He is survived by three sons.

Dr. W. Odling.

Rhine Navigation Controversy.—We have received from the Swiss Legation, London, W. 1, a copy of "De la Suisse à la Mer" (a recent special number of "Schweitzerland"), containing articles in French by M. R. Gelpke, Member of the Swiss Parliament, M. J. R. Frey, and other writers on the access of Switzerland to the sea and the development of waterways towards Italy. Excellent translations, into English, of M. Gelpke's article and of others by him, entitled respectively "The New Rhine," "Free Access to the Sea from Switzerland," and "The Rhine as a Highway of British Trade," accompany the review. One of the points at issue in these discussions, so far as the Rhine is concerned, is whether Bâle is to retain its existing facilities for communication with the North Sea or whether, under a proposed scheme of canalisation, Strassburg is to be developed as a port at the expense of Bâle. The review is well printed and illustrated, and the questions raised are, from the point of view of the exporter, of more than academic interest.

# Trade Notes.

Silkodono bonus terms for February are given in the advertisement of Silk's Toilet Co., Red Lion Street, Holborn, London, W.C. 1.

Bar soap at 6½*d.* per lb., in hundredweight cases, is the offer contained in the advertisement in this issue of Evans Sons Lescher & Webb, Ltd., Liverpool and London.

Collapsible Tubes.—Betts & Co., Ltd., 1 Wharf Road, City Road, London, N. 1, are the oldest-established makers of collapsible tubes. Illustrations of the tubes are given in the company's announcement in this issue.

Reducine.—The retail price of Reducine, the remedy for lameness in horses, will be 15*s.* in future, the wholesale price 10*s.* It is made by the Reducine Co., 45 Store Street, Dublin, and obtainable from wholesale houses.

"Toscat" Brand Chemicals.—An advertisement in this number enumerates some of the fine chemicals manufactured in France and sold in this country by the Old Strand Chemical and Trading Co., Ltd., Audrey House, Ely Place, London, E.C. 1.

Swamp-root Bonus.—In this issue Kilmer & Co., 173 Marylebone Road, London, N.W. 1, make a bonus offer of one dozen Swamp Root with minimum orders of nine dozen Swamp Root. The proprietary article is obtainable from wholesale houses. The firm states that an advertising campaign in the Press is about to commence.

Spring Specialities.—Thos. Guest & Co., Ltd., manufacturing confectioners, Carruthers Street, Manchester, whose advertisement of spring specialities appears in this number, have sent us specimens of the cartons used for the tablets, also samples of the showcards which are supplied to customers. The cartons and showcards are well-designed and suitable for chemists' trade.

Manicure Cases.—Henry C. Quelch & Co., 4 and 5 Ludgate Square, London, E.C. 4, have issued a wholesale price-list devoted solely to manicure requisites and cases and ladies' work companions. Files, emery boards, orange sticks, nail cleaners, nail clippers, cuticle knives, blackhead removers, etc., are shown on cards, and there is a large variety of fitted manicure cases. The list is well illustrated.

Essential-oil Agency.—Mr. S. E. Beckley, of E. Guillevic & Co., 19 St. Dunstan's Hill, London, E.C. 3, has just returned from a visit to the United States, where he has completed the arrangements for the sole agency by his firm for the products of Magnus, Mabee & Reynard, Inc., New York. The agency, we understand, is for Great Britain and France, and includes the sale of the "Mohawk" brand American essential oils. Stocks of Magnus, Mabee & Reynard's staple products will be carried by Messrs. Guillevic in London.

"Pears' Golden Bubble."—A. & F. Pears, Ltd., 71-75 New Oxford Street, London, W.C. 1, have issued as an addition to the "Golden" series of toilet preparations, bottles of lavender-water and eau de Cologne. The novelty consists in the sprinkler-topped bottle, which is globular in shape and gold-covered. This attractive and unique package gives the name "Golden Bubble" to the series of perfumes. The bottles sell retail at 5s. each, and they are sold to the trade in minimum packages of three. The quality of the perfume is excellent.

New Season's Cod-liver Oil.—We referred to the new season's cod-liver oil which Allen & Hanburys, Ltd., have received from their Norwegian factory. A sample we have since examined shows that the oil possesses all the desirable physical characteristics of new oil. In addition, analytical data—sp. gr., acid value and saponification and iodine values—with which we have been supplied prove the oil to be well within the limits allowed by the British Pharmacopœia. The recently-established fact that cod-liver oil contains abundance of the fat soluble vitamines is bound to increase the popularity of this medicament in the future.

Woolleys' Exhibit.—The accompanying photograph shows the exhibit of James Woolley, Sons & Co., Ltd.

Manchester, at the Efficiency Exhibition at Olympi referred to in the *C. & D.* last week. The feature of t exhibit was first-aid cases and ambulance-room requir ments for factories and workshops.

# Business Changes.

Mr. C. A. Scurr, F.S.M.C., F.I.O., chemist a druggist, has removed from Courthope Road, Hampstea to 64 High Street, Barnet.

Mr. Arthur Dobson, chemist and druggist, former with Booth & Openshaw, chemists, Blackburn, has open a pharmacy in Moss Street.

Coles & Hutt, Ltd., chemists, 85 St. Thomas' Stre Weymouth, have acquired the business of Stedman & C chemists, 87 St. Thomas' Street, to which address t business has been transferred.

# Information Department.

## INFORMATION WANTED.

Postal or telephone information with respect to makers or fi hand suppliers of the undermentioned articles will be appreciat

T/212. Victor acid used in making gum for envelopes
B/212. Collins' essence of eucalyptus
S/212. Turner's liver life tablets
C/232. Presstale
W/232. Kokum oil
S/182. Tar made from sphagnum moss
S/212. Moogral
B/232. Howell's liniment
L/212. Radio vanishing cre
G/192. Ratinol
H/242. Tekol for indigestion

## INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answe The information as to supply will be given to others who sen stamped, addressed envelope to the Information Department, Chemist and Druggist, 42 Cannon Street, London, E.C. 4:

Angus dog medicines, S/122
Baker's emulsifying machines, H/222
Binns' nit combs, C/82
Biogen, H/152
Burgess's lion ointment, S/232
Cicfa, T/102
Colgate's tooth paste, R/92
Delft and celluloid covered pots, M/212
Dunn's black oils, D/152
Eichoff's soap, H/152
Erjolene face cream, E/92
Herb-growing, W/202
Hycol disinfectant, G/112
Formalin Hygienic Co. (address), L/102
Hot-air baths, L/222
Kaye's coaguline, S/232
Maltosan, B/112
Melanyl marking-ink, T/102
Nurse Harvey's mixture, S
Pastex dyes, E/232
Sanitol, S/232
Septonol, B/182
Silwyr hair-brushes, B/222
Singleton's eye ointment, T/
Trimethol, A/102 and D/232
Union Jack corn paste, C/22
Yadil, P/142
Zimmer & Co.'s specialit E/212
Zorbo pneumonia jack M/142

# Observations and Reflections.

By Xrayser II.

### The Pending Legislation

on chemicals, to which you drew attention last week, appears likely to be in most cases detrimental to our interests, and your readers should be grateful to you for the way in which you persistently play the part of watchdog for us. It is usually in *C. & D.'s* editorials that we are first apprised of these legislative interferences with our freedom of action in the sphere of commerce, and if we have in any degree learned to look beyond those petty dealings in grams and milligrams to which your correspondent "Uno Voce" attributes our "mediocrity" in politics, pharmaceutical or other, and to correlate our small immediate concerns to some extent with the great movements of the world outside (without which no just view of the smallest matter is possible) we owe it largely to you. If they know little of England who know only England, they know little of the retail pharmacists' business whose knowledge of business is confined to that. The worst of it is that such questions as you discuss in the article referred to are not by the majority of people be so much as glanced at without stirring up party spirit. One has but to utter the word "Protection" or "Free Trade," and there is an end of all consideration of any given policy on its merits. It is not the least merit of your articles that you manage to avoid these pitfalls; I am afraid, however, that you will not easily teach some of us how to avoid them.

### The Dangerous Drugs Act Regulations

are hardly likely to give the storm of criticism and protest that has been raised by them, and it is not too much to say that if they do ours will have ceased to be a free country in any proper sense of the term, for these Regulations are, as "the Times" says, "an unequalled interference with our liberties," and if allowed to pass they will become a precedent that may be followed to any extent. The opposition to them was begun by pharmacists, and it may well be that in opposing them we have been defending vastly wider interests than our own. The principle of legislation by a departmental *fiat* (which is virtually what the Regulations do) is fatal to liberty and alien to the constitution under which our country has grown great. It may be submitted in time of war, but not when peace returns. Apart, however, from such general considerations as these, the case against the Regulations is overwhelming: they are as much as they are unjust and might stand as the *reductio ad absurdum* of bureaucratic government. The eight pages devoted last week to the criticisms directed against them by various bodies of experts are a sufficient exposure of their futility, but these criticisms are not exhaustive. The Scottish Memorandum is the most complete of all, but it, as you indicate, does not go into detail on all points, and it is only by going into details that the absurdity of the Regulations can be fully shown. That they will be withdrawn or greatly modified may be taken for granted: while it is a matter for self-gratulation that pharmacy, little regarded as it is, still is able "materially to affect the strength of the Government," when its rights are violated.

### The Retail Pharmacists' Union

appears to be the main subject of discussion at local association meetings, and it is both natural and right that it should be so. The Union cannot be too strongly supported. I should like to see every retail pharmacist in the kingdom a member, and should be sorry if any criticism, my own or another's, of the policy of its formation, of its rules, or of the proceedings of its provisional committee should deter a single person from joining it. But with all the goodwill in the world for its success I hold that it has not yet reached, and probably (being a human institution) never will reach, a stage in which criticism is not valuable and necessary. I pointed out last week some ambiguities—I might say inconsistencies—in its rules, and considering the manner in which these were passed at a public meeting it would be wonderful if there were no flaws in them. I see that Mr. Mallinson now says definitely that there are to be six electoral divisions, each electing three members. As the rules provide that the three officers having voting powers shall be elected from the Committee's own Body, this gives us eighteen as the total number of its members. Why, then, did the rules say "Not less than twenty-one," since "not more than three" clearly meant three? A "tripartite body," each party to which is "a separate entity," is a puzzle which it would require an orthodox theologian to explain; and I wish Mr. Melhuish had been a little more definite in his Stevensonian reference—which is Dr. Jekyll, and which is Mr. Hyde?

### Mr. Mallinson,

speaking at Manchester the other week, gave a somewhat curious reason why the Local Associations Executive had fallen in love with the Retail Pharmacists' Union scheme—namely, that no better one had been brought forward. This would be a quite sufficient reason (supposing it to be an accurate deduction) for adopting the scheme, but we don't usually fall in love with a thing because we can't find a better. It might possibly be the best of a bad lot, and, in any case, love is hardly likely to be excited on such grounds. Coventry Patmore, it is true, held that "we needs must love the lips we kiss," and love has no doubt sometimes grown up between couples who would seem to have had no natural attraction for one another or for anybody else; but it is early days for this to have happened between the L.A.E. and the R.P.U. Why, then, this sudden passion? The fact is that the L.A.E. never really looked at any other scheme. This one was its own child, and comparison with others was out of the question. It may be a case in which parental fondness was justifiable, but that time alone can prove. The legend, however, must not be allowed to grow up that the scheme was, after careful consideration, chosen from a number of others of manifest inferiority.

### "A Barrister-at-Law"

raises rather a fine point, but I doubt whether there is much in it. Certainly an apothecary's assistant is not a legally qualified pharmacist, and I don't know that anybody says he is. Whatever "statutorily qualified in professional pharmacy" may mean, it cannot mean that, or there would be no need for the Apothecaries' Company to demand the admission of its assistants to the rank of legally qualified pharmacists. But since, as your correspondent says, we have no legal assistant's qualification, the fact that an apothecary's assistant is not qualified to dispense for a chemist is negligible; he has just as much right to do it under supervision as any other unqualified assistant. That he has legally no advantage over men with no qualification at all he may indeed fairly regard as a hardship; it is a great blot on our system, and a blunder of our leaders in the past, that we have no qualification answerable to his.

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Theory of Relativity.—"Nature" for February 17 contains a symposium dealing with the theory of relativity from different points of view. The series includes fourteen articles and a bibliography of the subject. "Nature" is published at 1*s*.

The soap factories in Central Germany have formed themselves into an industrial union, with a view to strengthening their mutual interests. The union will bear the name of "Wismi," and have its seat in Leipzig. Its objects are the joint purchase of raw materials, joint sales of manufactures, and joint advertising.

French Lavender Fair.—At the Lavender Fair held at Digne (*C. & D.*, February 12, p. 77) it was decided to form a syndicate which would control the price of the oil, and it was agreed to fix a price of 5fr. per degree of ester, *i.e.* for a 40-per-cent. ester oil the price would be 200fr. It was also agreed not to sell below this figure before the new crop is ready.

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# Editorial Articles.

## Home Office Tactics.

THE replies in the House of Commons to questi addressed to the Home Secretary regarding the D Regulations issued under the Dangerous Drugs Act e disquieting. The Government refuse to withdraw e Draft Regulations, and the Home Office decline to rece a joint deputation of the various interests—medi dental, veterinary, pharmaceutical, and agricultural. e replies referred to and further correspondence with e Pharmaceutical Society of Great Britain are given e where in this issue. The Home Office is arrangin see deputations of the various parties separately, an this way a hopeless patching up of the Regulations result. It may be that the Home Office officials have yet realised that the Draft Regulations as issued ar nonsensical farrago which betrays the ignorance of e draughtsmen on technical matters in every line. Regulations as issued are quite unworkable, and e persons who drew them up should be told plainly t they have proved themselves quite incapable of ap ciating the problems which have to be faced. The H Office officials appear not to have heard about the statut restrictions on the sale of poisons which have been force in this country for over fifty years, and it is st on good authority that no communication was made the Privy Council, which has the oversight of the Poi Schedule, and may consequently be presumed to h accumulated some knowledge of the practical requ ments of such Regulations as are contemplated by e Dangerous Drugs Act. We know also that no notice taken of the suggestions made by the Pharmaceut Society of Great Britain. It is on this account that urge that efforts should be made to carry out the sug tion appearing in THE CHEMIST AND DRUGGIST that e Draft Regulations be withdrawn, and that a commi of experts be appointed to draw up workable Reg tions. The position at the present is that after fur tinkering by officials ignorant of the elements of pharm law, the Regulations will be issued in a completed f and placed on the table of the House of Commons wit further opportunities of discussion. The only thin be done then—and it is an unusual course—is for House of Commons to move an address to the King p ing that the Regulations be withdrawn. We hope in meantime the Prime Minister will give the hint to Home Office Civil servants that their insolent atti is unacceptable to the Government, and that they only adding to the unpopularity in the country of Ministry of the day. Our caricaturist expresses the that most people will take who have followed the co of events in connection with these Regulations. A di matic climb-down by the Home Office would only n that the officials recognise that they are the servant the public, and must carry out their duties with a regard to the limits laid down in the Dangerous D Act and the International Opium Convention. Whe the officials will have the good sense to retrace t steps remains to be seen, but if not they must be pared for the storm that will be raised in the Hous Commons if Regulations of the type foreshadowed in Draft are laid on the table.

## Australian Sandalwood Oil.

N important addition to the literature on Western Australian sandalwood oil (previously referred to in the . & D., 1919, p. 1010) has been published in the latest sue of the Bulletin of the Imperial Institute (No. 2, ol. XVIII.). Up to the present very little has been nown regarding the true nature of the constituents of e oil, but viewed in the light of the official quirements for East Indian sandalwood oil, it is once apparent that the Australian product is t suitable for medicinal use. This truth has, however, tended to obscure the purpose for which importers imarily intended the oil—namely, as a cheap substitute r Mysore oil in the soap and perfumery industries. In estern Australia practitioners, evidently, were not disyed by the fact that the native oil failed to reach the quired standard for a medicinal oil, and it has been scribed in the Public Hospital, Perth. Certain reports ve even been made that the Western Australian oil was und to possess the properties of the true sandalwood oil hout its deleterious effects. These reports were evitly considered seriously, for Western Australian horities referred the matter to the Imperial Institute complete tests, so that action might be taken to have oil recognised by the British Pharmacopœia. The ort now before us intimates that "the product has n investigated at the Imperial Institute with a view determining its constituents. Experiments have also n made regarding the possibility of preparing from Australian oil a product which would respond to the stants required by the British Pharmacopœia." Thus investigators have had to confine themselves to the ts of physical and chemical differences between the t Indian and Western Australian oils, and they wisely e the onus of recognition of the latter as a medical stitute for the Mysore product upon the therapeutic ts. It should be noted that Australian sandalwood oil ainly derived from *Fusanus spicatus*, and the genus *anus* is recognised by well-known botanical authorities losely to resemble the genus *Santalum* that it may st be regarded as identical and as merely a synonym, s mentioned in the Kew Index. In testing the ts of the oil it was found that none of them, with exception of the refractive index, falls within the e given by the B.P. for the official sandalwood pro. An interesting result was obtained in fractionation riments. The oil was distilled under 12 mm. pressure atmosphere of carbon dioxide, and a fraction boilt 130°-150° C., amounting to 15 per cent. of the oil, collected. The residual oil was again distilled, and ther fraction, boiling at 140°-150° C., under 7 mm. ure, equivalent to an additional 15 per cent., exed on the original oil, was removed. The effect was, usly enough, to lower the percentage of total alcohols d of increasing it. The explanation given is probably the alcohol or alcohols had been partially posed on boiling, with the production of sesquiter. An additional result of this method of distillation t the residual oil is dextro-rotatory (unlike *Santalum* oil, which is lævo-rotatory). A sample of East n oil distilled under the same conditions did not similar decomposition. The next step was to subthe Western Australian sandalwood oil to steam disn, and this method was more successful, the results g that the alcohols present in the oil had not suffer appreciable decomposition by distillation with steam. il obtained by the removal of a 20-per-cent. fraction had a higher specific gravity and contained a larger percentage of total alcohols than the original oil, but these constants were not sufficiently high to meet the Pharmacopœial requirements for the official oil. The report, however, states that it seems possible for an oil to be obtained by steam distillation which would conform to all the official tests except that of optical rotation. Although 20 per cent. was not, on this occasion, a sufficiently large fraction to bring about this result, on a larger scale more perfect fractionation could be obtained with steam distillation, and it should not be necessary to remove more than 20 per cent. of the oil. A similar result, it is stated, could probably be obtained by rejecting a first fraction during the original distillation of the wood. The obvious disadvantage is, of course, if no market could be found for the fraction, the loss of this quantity might render the distillation of the oil unprofitable. In determining the nature of the alcohols Chapman's oxidation method, involving the use of potassium permanganate, was followed. By this process a crystalline acid is obtained described as santalenic acid. But, while the oil from *Santalum album* yielded 24 per cent., the West Australian oil yielded only 3 per cent. Chapman obtained an average of 20 per cent. santalenic acid from East Indian sandalwood oil. This experiment gives a strong indication that the West Australian oil contains some santalol, but the smallness of the yield indicates that the proportion is much less than that of the official oil, and suggests the presence of some other alcohol or alcohols. It seems unlikely, in view of the present report, that the idea of the West Australia authorities to have the oil included in the B.P. will be realised, for conclusive evidence of therapeutic value, in so sparsely a populated country as West Australia, is not likely readily to be forthcoming. Nevertheless, the report is of value in establishing a definite relationship between the East Indian and Western Australian sandalwood oils, so that distillers, importers, and consumers may know the actual shortcomings of the cheaper oil in regard to their particular branch of industry.

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## Using Methylated Spirits.

A reply we gave recently to a correspondent regarding the restrictions on the uses of methylated spirits—Government authorities habitually use the plural word—has brought us other inquiries, which point to the necessity of outlining the requirements that must be fulfilled before methylated spirits may be employed in compounding. Denatured duty-free spirits are either industrial methylated spirits or mineralised methylated spirits. The industrial, which contain only one-nineteenth of their bulk of wood naphtha and do not require to have any further addition made to them to unfit them for beverage purposes, are naturally more strictly curtailed in their use than the mineralised variety. The written consent of the Board of Customs and Excise is required before they can be received or used. To obtain this an official form must be filled up, setting out the estimated quantity to be used, the purposes for which the spirits are required, and, where the quantity to be used exceeds 50 gallons annually, the applicant must be prepared to enter into a bond with sureties for the due use of the spirits for the purposes for which permission is granted. The Board will not grant permission to use industrial spirits for the purpose of lighting, heating, or motive power, nor, as a rule, for any purpose for which mineralised spirits would be suitable. And methylated spirits

of any description must not be used in the preparation of an article which is capable of being used internally as a medicine or wholly or partially as a beverage, or for the production of absolute alcohol. The use of industrial spirits for the making of certain hair-washes or other toilet-preparations is sanctioned by the Board on condition that a suitable denaturant is used, such as quassia extract. Where it is desired to get this permission the formula should be sent for approval with the application. Although users of the spirits must not go beyond the use expressly allowed, public analysts and other analytical and consulting chemists of recognised standing who are authorised to receive the spirits are not interfered with in the use of them in the ordinary operations of chemical analysis, although outside the terms of the permission granted. The spirits can be obtained only from an authorised methylator, and on an official requisition form sent by the user. The restrictions on the use of mineralised methylated spirits are not so stringent, as this variety of the spirits contains, in addition to one-ninth of their bulk of wood naphtha, three-eighths of 1 per cent. of mineral naphtha or petroleum oil. Where anyone desires to use these spirits he must also obtain the Board's sanction to the use, and this applies even if he is a retailer of methylated spirits. A retailer authorised to use is also confined to receiving all his supplies from an authorised methylator. And, although a retailer is not under his licence allowed to sell or have in his possession for sale any spirits except the mineralised variety, he may obtain the Board's permission to receive and use industrial spirits also in some art or manufacture carried on by him. Among the uses to which the spirits have been allowed to be put are: The preparation of ethylic or sulphuric ether, ethyl chloride, methyl chloride, ethyl bromide, chloroform, hydrate of chloral, and veterinary medicines. And, although methylated spirits must not be used in the preparation of an internal medicine or prepared for use as a beverage, this does not apply to the case of extracts if all trace of the spirit is removed by distillation from the extracts, but, of course, an application has to be made for permission giving a list of the extracts. No objection is taken to the use of the spirits in the making of lin. camph. co., lin. aconiti, lin. saponis, or lin. belladonnæ. Spirits must not be recovered by distillation or condensation unless permission to recover is specially granted, nor must any attempt be made to purify methylated spirits. Where anyone, whether a retailer of the spirits or not, wishes to have permission to use them in an art or manufacture he can obtain from the local officer of Customs and Excise a printed form of application, the headings of which indicate the information which has to be given if the application is to be entertained.

### Denaturants for Spirits.

The Empire Motor Fuels Committee, which was formed last May by the Imperial Motor Transport Council to consider the development of additional motor-fuel supplies, has issued a report. A memorandum was drawn up stating the following desiderata for a denaturant of spirit:

The material must be soluble in alcohol, benzole, and petrol, and in certain mixtures of these; it should not be capable of ready separation from its solutions in the above liquids and mixtures; it should be stable on keeping, and should be unaffected by contact with metals; small traces of it should be detected readily by chemical test; it should be cheap and plentiful; in alcoholic solution it should have a nauseous taste and possibly smell; it should not be high poisonous, and the products of its combustion should n have marked action on metals.

A Denaturation Sub-Committee appointed under t chairmanship of Sir Charles Bedford has already inves gated redistilled bone oil, light caoutchoucine, and sha oil products. Experiments are in progress with prom ing results to detect quantitatively the presence of bo oil in alcohol in quantities as small as 0.001 per ce Some work has been carried out on the cracking of t residues of bone oil and light caoutchoucine. The latt lends itself more readily to this operation than the form Experiments have also been conducted on castor oil; the is evidence that a denaturant can be obtained from th substance, but the cost is prohibitive. The laborato work on alcohol denaturation will proceed as follows:

1. Experimental work in connection with qualitative a quantitative chemical tests for (a) redistilled bone o (b) light caoutchoucine, with especial reference to the det tion of very small quantities.

2. Preparation of (a) redistilled bone oil; (b) light caou choucine in sufficient amount for tests to be carried out may be necessary to complete investigations and practic trials; (c) determination of provisional specifications.

3. Investigations of pyridine, quinoline, pyrrol, and oth allied substances; detection, qualitative tests and estim tion, preliminary examination of possible synthetic metho of preparation with especial reference to pyridine.

4. Investigation of the cracking of petroleum produ with a view to obtaining a substance which would be of u either alone or in conjunction with other substances f denaturation purposes.

5. Investigation of a new substance found in certain roo growing in localities where alcohol may eventually be pr duced—this substance is reported to be capable of impartin certain characteristics to water at a dilution of one pa in one million.

6. Investigation of the residues formed in the preparati of light caoutchoucine and bone oil.

7. Investigation of the effect of proposed denaturants metals.

## Retail Pharmacists' Union.

**Blackburn.**—The chemists of Blackburn have decid to form a branch of the Retail Pharmacists' Unio Officers of the North-East Lancashire Chemists' Associ tion will act in a similar capacity in connection with t new branch.

**Isle of Wight.**—The Isle of Wight Pharmacist Association held a meeting at Ryde on February Mr. H. W. Barford (President) in the chair. was unanimously resolved to form a branch of the Ret Pharmacists' Union, with the President, Vice-Preside and secretary of the Association—Messrs. H. W Barford (Ryde, I.W.), W. T. Deeks (Shanklin, I.W and Edward Ruston (Newport, I.W.)—to act in the sa capacity, together with a small committee. A letter protest against the Draft Regulations of the Dangero Drugs Act was signed and ordered to be sent to t Home Secretary.

**Lancashire (S.W.).**—Master-pharmacists of the Sout West Lancashire and West Cheshire area, to the numb of forty, assembled at the Royal Institution, Liverpo on February 16, to hear addresses in support of the Ret Pharmacists' Union. Mr. A. Peake (Earlstown) preside Mr. J. W. Deakin (Northwich), chairman of the Loc Associations Executive, Mr. J. H. Nidd (Manchester and Mr. Thomas Hardy (Maryport) explained the obje of the R.P.U., and numerous questions were answere among the speakers being Mr. David H. Evans, Mr. W. I Clubb, Mr. J. L. Hirst, and Mr. West (Southport). resolution was afterwards adopted unanimously approvi of the formation of the R.P.U. and advising all who h not already enrolled to join the Union. It was also agre to send a telegram to the Home Secretary condemning t Draft Regulations under the Dangerous Drugs Act.

The Essex Police have circulated a notice to the effe that sweets poisoned with arsenic are being sent about I post.

# Therapeutic Substances Control.

e Departmental Committee appointed by the Minister Health, on April 13, 1920, "to consider and advise n the legislative and administrative measures to be en for the effective control of the quality and authenity of such therapeutic substances offered for sale to public as cannot be tested adequately by direct chemimeans," has issued a report.

he report states that twenty witnesses were examined, uding Messrs. Edmund White and F. W. Gamble armaceutical Society of Great Britain), Mr. C. E. rson (Burroughs Wellcome & Co.), Dr. H. E. Annett ans Sons Lescher & Webb, Ltd.), Messrs. H. J. Fisk T. Maben (Parke, Davis & Co.), and Mr. P. kinsop (May & Baker, Ltd.).

he Committee interpreted the term "therapeutic subces" as including prophylactic and diagnostic, as well urely curative, substances. Prophylaxis and diagnosis so bound up with therapeutics as to be inseparable it, and no hard-and-fast line can be drawn between its used for curative and those employed for proactic and diagnostic purposes, the same substance g used in varying circumstances, both as an instruof cure and as a means of prophylaxis or diagnosis.

### Classification of Therapeutic Substances.

e substances included in the terms of reference may ally be classified into three groups:

) A group comprising the bodies conveniently ded in the United States Regulations of 1919 as "bio products," *i.e.*, vaccines, serums, toxins, antitoxins, analogous products.

) A group of potent synthetic remedies such as sal n and its analogues.

) A group corresponding more nearly with the popur received definition of ordinary "drugs," *e.g.*, preions of digitalis, strophanthus, squill, ergot, cannabis a, pituitary gland, etc.

*Group A.*—The substances in Group A cannot be tested for purity, potency, or authenticity by chemical s. These products are liable in the process of manuto bacterial contamination, which must be detected her than chemical means, and they cannot safely be sed by heat or by chemical agencies without seriously ring their efficiency. They are given, not by the t, but by means of hypodermic, intramuscular, intra, or intravenous injection. Their purity, potency, and ticity are therefore matters of vital importance, and les of the necessity for stringent tests of these products been given by several witnesses.

*Group B.*—Substances in Group B are synthetic chemicals, ich the chemical composition of the main product is ; but experience has demonstrated that slight and reciated variations in the process of manufacture may e such variations in their properties as to render them toxic. The margin between therapeutic efficiency angerous toxicity is in any case a narrow one, and ly be ascertained by other than chemical means. An t test is the more essential, since the usual method ministration of these substances is by intravenous ion.

*Group C* is sharply differentiated from both the preceding , and in it are included the only substances, coming the terms of reference, which are habitually given mouth. Most of the substances in this group are included in the British Pharmacopœia, and certain ve tests and methods of identification are therein d for them. There is, however, an important body ssional opinion that these tests are far from adeas standards of therapeutic efficiency. This opinion ongly put forward by Sir William Hale-White on of the Royal College of Physicians of London, by or W. E. Dixon on behalf of the British Medical tion, and by Sir Shirley Murphy on behalf of the of Apothecaries of London. Sir Donald MacAlister, ve evidence on behalf of the Pharmacopœia Comof the General Medical Council, though he does not the application of physiological standards to substance in Group C as being of the same importance as their application to those in Groups A and B, admitted that ch standards are "accessory guarantees" of therapeutic efficiency. He agreed also that, strictly speaking, no such standards at present exist, since there is no equivalence, comparison, or guarantee of uniformity as between the standards of different firms, and that such a state of affairs was undesirable. Upon this latter point Sir William Hale-White and Professor W. E. Dixon also strongly insisted.

### Present Position.

The official guide as to standards for drugs in the United Kingdom is the British Pharmacopœia, which is also, with certain reservations, an Imperial Pharmacopœia. This volume is a publication issued at certain intervals under the direction of the General Council of Medical Education and Registration of the United Kingdom, pursuant to the Medical Act of 1858, Section 54, and the Medical Council Act, 1862. The standards described therein are based, however, solely upon physical and chemical methods. Serums, vaccines, etc., which require other methods for their standardisation, are thus not included in the Pharmacopœia.

An explanation of this fact was given by Sir Donald MacAlister in his evidence. He stated that the principle hitherto guiding the adoption of standards for the British Pharmacopœia was to prescribe only such chemical and physical tests of purity and composition as were capable of being carried out by skilled pharmacists or analysts in any part of the Empire, and that in the preparation of the last edition of the Pharmacopœia the Pharmacopœia Committee came to the conclusion that by prescribing tests which required the employment of animals conditions would be enacted which would be at variance with the principle enunciated above. At the same time, the importance was felt of fixing some authoritative standard, which could at least be referred to in the Pharmacopœia, for such bodies as serums, vaccines, etc. In October 1909 a resolution was accordingly passed by the Pharmacopœia Committee authorising the President of the General Medical Council "to approach the Government with a suggestion for the establishment of a public institution for the pharmacological standardisation of potent drugs and of serums." He informed the Committee that the Government were approached, but that it was not found possible to take immediate steps in the direction then indicated, and that it became evident that nothing could be done in time for the publication of the fresh edition of the Pharmacopœia, which was expected to take place in 1912, although, owing to unforeseen circumstances, the actual publication was delayed till 1914. It was felt that the Pharmacopœia must be forthwith published as its issue was already behind date, and so the matter was left over.

Standardisation of the substances in Group A is left at present wholly to the private enterprise of manufacturers. Each maker is free to adopt his own conception of adequate standardisation, and there is no official check. Hence any guarantee of potency and authenticity entirely depends upon the reputation of the supplying firm. The reputation of the British manufacturers of these substances is deservedly high, but there are obvious disadvantages attaching to the present state of affairs. Examples have been cited of defects in purity and variations in potency which occur under existing conditions, nor is there anything in the existing state of the law to prevent any firm or person from manufacturing sera, vaccines, etc., whether competent to do so or not. Further, as will be seen from a subsequent paragraph, these products may be imported into this country without check or guarantee of any kind. A further unsatisfactory feature of the present situation is the fact that there are in existence no British standards to which reference can be made in cases where biological assay is necessary. Manufacturers have perforce had to adopt foreign standards for that purpose.

The report then dealt with the systems of control in the United States and Germany.

### Methods of Control Recommended.

*Group A.*

All the witnesses expressed the opinion that there is a need in this country of some recognised system of standardisation for substances comprised under Group A.

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The Committee think it worthy of special note that this consensus of opinion obtains not only among the scientific authorities examined, but also among the representatives of the commercial and manufacturing interests which will be most nearly affected by any proposed scheme of regulation. Mr. Pearson, speaking on behalf of Burroughs Wellcome & Co., said: "It will be helpful to have definite standards to work to, and would wipe out products of a lower standard such as those at present advertised and supposed to be equal to the products of a manufacturer who works to a high standard. A minimum standard should be required, but nothing should be done to prevent a manufacturer issuing products of a higher standard." Dr. H. E. Annett, representing Evans Sons Lescher & Webb, Ltd., on being asked: "Should you object to tests being laid down by a Scientific Advisory Committee, and those tests being required to be applied by the manufacturer?" replied: "I would not, but I should like a Scientific Advisory Committee more defined . . ." The witness then went on to make the reservation that in his opinion any Advisory Committee should contain representatives of the manufacturing firms. Mr. Harry J. Fisk, representing Parke, Davies & Co., when asked whether vaccines and serums should be included in a system of standardisation and control, replied: "All of them, I think, would be included." *Q.* "Any that can be tested for purity or potency or both?" *A.* "Certainly." Mr. F. W. Gamble, from Allen & Hanbury's, Ltd., though raising certain objections on detail, nevertheless accepted the general principle involved, as is shown by the following answer to a question: "I quite agree that a standard should be laid down for manufacturers to comply with. . . . I quite agree there should be standards."

After careful consideration of all the evidence, the Committee are of opinion that definite standards for potency and purity, and tests for authenticity, should be formulated and enforced for products included in Group A. The present state of our knowledge does not admit of more than a few of these substances being made amenable to laboratory standards for potency. This is more or less the case with all the vaccines, there being at the present moment no satisfactory units of potency to which we can refer as standards. As regards the serums, there are only two in common use, diphtheria and tetanus antitoxins, which are at present capable of satisfactory standardisation in this sense; but taking the term standardisation in its wide sense, all these bodies, whether vaccines or serums, can be tested for freedom from extraneous bacterial and other contamination and, in the majority of cases, for authenticity. Thus it will be seen that in respect of standardisation the bodies comprised in Group A fall within two classes: (1) Those which are amenable to standardisation in respect of potency, purity, and authenticity. (2) Those for which no satisfactory standards of potency can be formulated at present but which can be made to conform with certain standards of purity and can in the majority of cases be tested also for authenticity. The Committee hold it to be of the highest importance that such standards and tests as are applicable should be prescribed and enforced in the case of both classes.

The Committee recommend that a system of licensing and inspection of premises and processes should go hand in hand with testing of the finished product as regards the substances comprised in Group A of paragraph 5.

An important point arises, however, as to the method of testing these products to ascertain whether they conform to the standards which may have been formulated. There are two alternative methods:—

(1) A sample of each batch of any product made by a firm can be tested by a Government laboratory. This practice would be an extension of that hitherto adopted in the case of salvarsan as a war emergency measure.

(2) A control test may be made of samples taken from the manufacturer's shelves at the time of inspection and of samples bought from time to time in the open market.

After careful consideration the Committee recommend the adoption of the second method in the case of serums, vaccines, and other so-termed biological products. It is a method which has worked well in the United States for a considerable period, is easy to carry out, and does not involve an unwieldy central staff or a large and c Government laboratory. It also appears to be c efficient as a safeguard against a firm putting on market substances deficient in purity and potency. W this should be the normal procedure, the Committee t that power should be taken to require a particular m facturer for a stated period to submit to the Govern laboratory samples of every batch of a substance m There should be discretion to charge the manufac with the cost of these tests.

*Group B.*

The Committee then proceed to deal with subst comprised in the second group, viz., salvarsan an analogues (Group B). These bodies, like thos Group A, are not included in the British Pharmaco but unlike those are at present subject to a metho Government control whereby certain standards as re non-toxicity are set up and rigidly enforced. This trol was rendered possible by the fact that this cou was at war with Germany. Salvarsan is the subje patents held by Germans. The steps by which salva and its analogues were thus brought under control not be detailed here, but the net result is that the B of Trade have issued licences for the manufactur salvarsan to certain approved firms. Attached to issue of a licence are certain conditions, the most portant of which are:

(1) A certain schedule of maximum prices.

(2) Samples of each batch of material made, before put on the market, must be submitted to the Medical search Council (formerly the Medical Research Commi and must pass their tests.

From the nature of the case these arrangements merely temporary. It should further be noted that the control has been effective, under war condition securing that every batch of these products has been b ject to an approved test, a control so obtained is applicable to the German patentees. It was state evidence before us that German salvarsan has rec been entering this country subject to no control than that which may be exercised in the country o origin.

In the case of salvarsan and its analogues, there the Committee are of opinion that the same procedu licensing manufacturers should be adopted as in the of serums and vaccines; that power should accordingl taken to inspect plant and processes, but that ordinary exercise of this power should be limited. the case of serums and vaccines, the granting of the should be made dependent on the evidence, obtained inspection, that the manufacturer has command of pre staff and facilities for carrying out those parts of processes of preparation and testing which are made ject to inspection. The provision for assuring that products are satisfactorily tested should be analogou that made in the case of serums and vaccines; that to say, power should be taken to formulate tests, and to it obligatory that every batch of such products shall these tests before it is issued for use.

The biological test applicable to substances of class is essentially one for toxicity. The margin bet the therapeutically effective and the dangerously dose is a relatively narrow one, even in the case of best preparations. There is not yet available any veniently applicable laboratory test for their therap efficacy. There will be need, therefore, not merely biological test, to guarantee that the toxicity of the preparation is not dangerously high, but for certain cri of chemical composition, which shall ensure that manufacturer does not correct the unduly high toxicit a preparation by lowering its content of the th peutically active constituent, or that, in the extreme a preparation resembling one of these products in physical properties, but having no therapeutic action, not be passed for issue simply on the ground of its toxicity.

The Committee consider, therefore, that power sh be taken to formulate chemical, physical, and biolo standards with which every batch of a substance of class must comply before it is issued for use in therapeutics. It will probably be found desirable to leav

manufacturer the responsibility of seeing that his uct fulfils the stipulations as to chemical composition physical properties, the central laboratory merely ying out occasional control tests. When a biological can be formulated, which can be regarded as giving erfectly satisfactory guarantee that the product is al in respect of toxicity, it will probably be desirable row the responsibility for the regular application of test also upon the manufacturer, as we have recom- led in the case of serums and vaccines. As yet, how- the testing of these products by biological methods ot be said to have passed out of the experimental , and it will probably be advisable for some time to ise, with regard to them, the discretionary power red to above, to direct that every batch shall be sub- d to biological testing in a Government laboratory, ad of or in addition to the tests carried out by or on f of the manufacturer. This would, in effect, pro- the application of the system of biological testing hese products which has been in force during the bringing it under the authority of ordinary law, extending its application to the products of the an patentees and to other similar products whether factured at home or abroad. Scope would also be for modifying the system by administrative action, cordance with the progress of knowledge and the s of its application.

*Group C.*

e Committee then dealt with the third group of sub- s, *viz.*, the galenical and other preparations which lassified as Group C. These are a class apart and in many important respects from the groups of sub- s considered above. Most of them are usually given e mouth and not by the methods described above as characteristic of the administration of serums, es, salvarsan, and so on. Accidental contamination is herefore, a matter of such vital importance. More- hey are capable of being tested up to a certain point mical and physical methods. They are, most of them, ed in the British Pharmacopœia, and standards ind are therein described for such as are included. theless, as has been already pointed out, there is a body of scientific opinion that these standards are quate, and should be supplemented. In many es individual manufacturers have already attempted e effect to this opinion by adopting for these sub- s biological metheds of standardisation, either d in their own laboratories, or recommended by ndent workers, and by issuing preparations which scribed as "physiologically standardised." It has epresented in evidence that this use of the word lardised" has no proper justification when there uniformity either of method or standard in testing. rst need of the situation, as regards the drugs of ass, would appear to be the official definition of rds. The President of the General Medical Council ed to us the probability that, if such methods and rds could be formulated, they would be adopted escribed by reference in the next edition of the Pharmacopœia. It might be and was actually ed that the inclusion of such tests in the Pharma- would secure the requisite uniformity, and that ver to ensure the conscientious application of tests ficially laid down is given already by the Sale of nd Drugs Acts. The tests, however, of which the stration of the Sale of Food and Drugs Acts has taken cognisance have been of a relatively simple l nature, such as can be carried out by any public with a certainty of uniform result.

e case of the biological tests there seems to be r skilled supervision of the application of the tests ufacturers, to ensure that the conditions are not tionally varied, and for regular control tests to hat the desired uniformity is actually being main- The Committee are therefore of opinion that a tory biological assay of these products can best red by the application to them of a method of standards, formulating tests, licensing manufac- and inspecting the methods and results of the carried out for them, similar to that which the Committee have recommended in the case of the Groups A and B. In the case of Group C, however, they recommend that the inspection should in practice be limited, as a rule, to the methods and records of biological testing.

### Carrying out the Proposals.

The report then considers the legislative and administrative machinery necessary to give effect to the recommendations. It is suggested that the Privy Council should be constituted the controlling authority to carry out these recommendations, with power to depute the Minister of Health to act, or power be given to delegate administrative functions to a Committee of the three health authorities.

Among other matters, it would be the function of this Committee—

(1) To decide from time to time what substances are to be brought under the methods of control recommended in this Report.

(2) To prescribe the methods of standardisation and testing for these substances.

The recommendations assume the existence of a Central Laboratory, under Government control, which can be charged with the important duties of preparing and maintaining the standard preparations, when such are needed; of conducting research, with a view to the improvement of existing methods of standardisation, and to the discovery of suitable methods in cases where such are not yet available; of carrying out the testing and assay of each batch of any product which it may be considered advisable to have centrally tested; and of making control tests on samples of products for the routine testing of which the manufacturers are made responsible. The Committee think that the Medical Research Council, which has already undertaken work of this kind on behalf of the Government under the special conditions of the war, should be responsible for this central laboratory. This body is already responsible to the Committee of the Privy Council.

### Imported Products.

The Committee, lastly, consider the case of imported products. It is obvious that it would place an unfair handicap upon the home manufacturer were his products subject to standardisation and control while those imported were allowed to come in free of any restriction. There are at present no restrictions on the importation of the therapeutic substances under discussion except in so far as they contain alcohol or other dutiable ingredient. The Committee recommend that imported material answering the description of the terms of reference should be subjected to control in cases where like materials are controlled in this country, and that, as in the case of the United States, licences should be granted to approved firms based on a primary inspection of works and further inspection at certain stated periods. In respect of any particular consignment of such goods coming to this country, a permit to admit should be issued provided that samples, sent either with the consignment or prior to its arrival, show on analysis that the substances attain the standards which have been laid down for similar products of home manufacture. Those permits should be issued by the controlling health authority and placed in the hands of the Customs officials so soon as the necessary tests of samples have been carried out. Coupled with this should be a requirement that all substances of this nature should bear an approved form of label. It should be made unlawful for any person to import these substances unless they bear the label referred to.

An appendix gives the text for a draft Bill to make provision for standardising and controlling vaccines, serums, and other drugs which cannot be tested adequately by chemical means.

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A Forecast.—"The Indian Medical Service is passing, gradually but surely, from the hands of the English into those of the Indians, and it is very doubtful if any British will be left in the Service in twenty or thirty years' time."—*Dr. Cecil Webb-Johnson in the "Asiatic Review."*

# Dangerous Drugs Act Regulations.

### Answers to Parliamentary Questions.

We gave, in our last issue (p. 49), the nine questions by members of the House of Commons which were answered together on February 17 by Sir John Baird, the Under-Secretary for the Home Department. He said :

In the first place, I desire to make it clear that the Regulations are at present in draft only, and will not come into operation until they have been formally made. They are issued first in draft for the express purpose of giving all parties interested the opportunity of expressing their views before they are finally made. The criticisms that have been directed against the Department for not having consulted this body or that before issuing the Regulations are, I think, therefore a little misplaced. Representations have been received from a number of bodies, and these are being carefully considered. Many of the objections are based on a misapprehension of the meaning of the Regulations, as, for instance, the objection to Regulation 13 referred to in the question of the hon. member for Central Portsmouth (Sir T. Bramsdon); and where necessary the wording of the Regulations will be amended so as to make the meaning perfectly clear. Apart from these, a number of important points have been raised, and these are being, or will be, discussed with the representatives of the interests concerned. As regards the application of the Regulations to agriculture, my right hon. friend is in consultation with the Ministry of Agriculture. I may remind the House that the Regulations are proposed in order to carry out the obligation which the Government have undertaken, by the International Opium Convention and the Treaty of Versailles, to confine the use of the drugs in question to medical and other legitimate uses. Parliament gave express powers for the purpose in the Dangerous Drugs Act of last session. I imagine that the need for additional restrictions, in view of the prevalence of the drug habit, will be generally admitted. At the same time, it is not my right hon. friend's desire or intention to impose any restrictions beyond what are absolutely necessary to effect the purpose, and he hopes he may be able to meet to a very large extent the views which have been submitted to him. When the Regulations are finally made, they will be laid before Parliament, and Parliament will have an opportunity of discussing them if it so desires.

Colonel Greig : Is it not a fact that these Draft Regulations have been published in accordance with an Act of Parliament which has been on the Statute Book for the last twenty years—the Rules Publication Act—in order that anyone may object or comment as he thinks fit?

Mr. Thomson : Are we to understand that the Home Secretary will receive a deputation from these various societies, and discuss with them the points that have been raised?

Sir J. Baird : The Home Secretary has already agreed to receive a deputation.

Mr. Raffan : Will the Rules become operative before the discussion which has been promised takes place in this House, or will the Minister be guided by the views of members of this House before the Regulations assume their final form?

Sir J. Baird : The position is that the Rules have to lie on the table of the House for twenty-one days, and during that period a member of this or of the other House can move an address to the King objecting to them. It does not lie with the Government or the Minister to find time.

Mr. Raffan : They do not become operative until after the expiration of twenty-one days?

Sir J. Baird : No.

Sir D. Maclean : When does the hon. Baronet think that these Regulations will be laid? Will it be in the course of the next month?

Sir J. Baird : Yes, I think certainly in the cours of the next month. The matter is rather urgent, becau in the event of the Treaty with Turkey being ratif the Regulations under which we can now exercise res tions on opium and cocaine will lapse, and unless tre is something to put in their place a deplorable stat affairs will be created. I am afraid I cannot give an absolute date when these Regulations will be laid or w the discussion with bodies affected will take place.

Sir J. D. Rees : Is the hon. Baronet aware that the Draft Regulations are viewed with consternation by the people concerned? Is it really contemplated that the supermen of the League of Nations are to worry every under-dog about every matter like this? Will my n. friend represent to the Home Secretary the intense n popularity of these Regulations, which are utt unjustifiable?

Sir J. Baird : I think my right hon. friend is a that a certain amount of unpopularity has been aro by them. He is doing his best to meet the objec so far as he legitimately can, having regard to our in national obligations.

Lieut.-Colonel A. Murray : Will the representative agriculture have the fullest opportunity of putting views before the Minister?

Sir J. Baird : Certainly; we are in consultation the Ministry of Agriculture.

Mr. Acland : Is it not a fact that the Internat Opium Agreement was come to before the Leagu Nations was born or thought of?

Sir J. Baird : That is perfectly true.

Sir H. Craik : Is the hon. Baronet aware that the opportunities of discussing an Order laid on the tab of the House are absolutely illusory unless the Govern give time for it?

Sir J. Baird : I will not presume to argue a m of that sort with the right hon. gentleman, who has much more experience than I have, but I believe I is in error. The Government have nothing to do with it he House has the right to discuss the matter on any da

Other questions have since been asked by Lieut.-Co A. Murray and Sir D. Hall, and the members re referred to the reply given on February 17 (see above

### Joint Deputation Refused.

The Pharmaceutical Society of Great Britain on February 10, sent the following letter to the Ho Secretary :

As indicated in my letter of February 3, 1921, I am directed to ask if the Secretary of State would be o enough to receive a deputation consisting of represente of this Society, the Pharmaceutical Society of Ireland British Medical Association, the British Dental Associa the Retail Pharmacists' Union, the Fine Chemical Manu turers' Association, and other societies. The object o deputation will be to ask the Secretary of State to draw the Draft Regulations so that they may be redr in such a way as to meet the criticisms which have alr been sent to the Home Office, and so that they may em the result of consultations between the Home Office and advisers to the bodies represented by the deputation.

Reply, dated February 18, from the Home Office :

I am directed by the Secretary of State to refer to u letters of January 22 and February 3 and 10 on the ject of the Draft Regulations issued by the Home Office under the Dangerous Drugs Act, 1920, and to say that he does not think any useful purpose would be served a joint deputation of the various bodies mentioned in u letter of February 10; but he will be willing to rece deputation from the Pharmaceutical Societies of Great Britain and Ireland and the Retail Pharmacists' Uni at an early date. He desires me, however, to say that there can be no question, as suggested in your letter, of the drawing the Regulations which are only in draft and ject to amendment, and that his object in receiving deputation will be to hear what the Associations have to say, and discuss with their representatives the objec that they have submitted to him. A similar communic is being sent to the Pharmaceutical Society of Ireland. Mr. Shortt's private secretary will communicate with you with a view to arranging a convenient date for the intervi

## A Joint Protest.

In consequence of the refusal of the Home Office to eive a deputation of the interests affected by the aft Regulations, the following letter has been sent the Home Secretary:

The bodies represented by the signatories to this letter associated in the request contained in the letter itten by the Pharmaceutical Society on February 10 the effect that the representatives of the various inests should be received together and not separately, was made after careful consideration and for the lowing reasons:

1) That the bodies were in complete agreement that Regulations as drafted are unworkable.

2) That though difficulties peculiar to the respective fessions are created and amendments satisfactory to ividual sections might be made to and accepted by Secretary of State independently, the considered nion of those associated in this request for a joint utation is that all the suggestions emanating from different quarters should be referred to a Committee experts for consideration as a whole, and that the ice of those experts, based upon the consideration of se suggestions, which by the nature of things are nd to be more or less conflicting, shall be at the posal of the Home Secretary when he finally makes Regulations.

/e desire respectfully to say that the method which been adopted—namely, of the representatives of the fessions and interests involved being interviewed, e by yourself and others by your officials, and of mpting to meet their objections independently, is a hod which is adding to the uneasiness which the lication of the Draft Regulations has created.

'e therefore urge most strongly that you should reider your decision (conveyed to the Pharmaceutical iety of Great Britain in the letter of February 18) to receive the joint deputation. We are firmly of ion that if you do so, much time and trouble will aved to your department as well as to all the bodies erned, and that the making of Regulations, which n as a whole will be as free from objection as lations of this kind can be, will be facilitated.

William S. Glyn-Jones (Secretary, Pharmaceutical ciety of Great Britain).

Alfred Cox (Medical Secretary, British Medical sociation).

Robert Lindsay (Dental Secretary, British Dental sociation).

Arthur T. Ferrall (Registrar, Pharmaceutical iety of Ireland).

A. V. Alexander (Secretary, Parliamentary Comtee of the Co-operative Congress).

. A. Mallinson (Secretary, Retail Pharmacists' ion).

ames Jack (Chairman, Scottish Pharmaceutical leration).

rthur D. Allen (General Secretary, National mers' Union).

. Lloyd Howard (Chairman, Fine Chemical Manufrers' Association).

rederick J. Smith (Chairman, Meeting London olesalers of Druggists' Sundries and Proprietaries).

. S. Waring (Company Chemists' Association, L.).

W. Billington (Hon. Sec., Public Pharmacists' Aciation).

Edward Lescher (President of the Drug Club).

. Wippell Gadd (Secretary of the Drug Club).

atrick Howling (General Secretary, the National Cmber of Trade).

J. Kidney (Secretary, Dublin and Provincial Rail Drug Association).

C. Culbert (Secretary, North Irish Pharmacists' Asciation).

. J. Stevenson (Secretary, Ulster Retail Drug Tre Association).

## Suggested Regulations for Hospitals.

The council of the Public Pharmacists' Association has drawn up the following Regulations, which it is suggested could be applied in hospitals and similar institutions. The council hold that it would be fitter to have special Regulations for hospitals, as the conditions are very different from those obtaining in retail pharmacies. Mr. L. W. Billington, secretary of the Association, Islington Infirmary, Highgate Hill, London, N. 19, asks for comments from hospital pharmacists.

N.B.—For the purposes of these Regulations a public hospital or institution shall be an institution carried on for the medical or surgical relief of any member of the community, or class of the community, without personal gain to the members of the authority controlling it.

These Regulations apply equally to raw opium, morphine, cocaine, ecgonine, and diamorphine.

The drugs to which these Regulations apply are morphine, cocaine, ecgonine, and diamorphine (commonly known as heroin) and their respective salts, and to medicinal opium and any preparation, admixture, extract, or other substance containing not less than one-fifth per cent. of morphine, or one-tenth per cent. of cocaine, ecgonine, or diamorphine.

For the purposes of the foregoing provision the percentage in the case of morphine shall be calculated as in respect of anhydrous morphine.

No person shall supply or procure any of the drugs to or for any person other than in accordance with the terms and conditions of these Regulations.

Any person being duly registered under the Pharmacy Act, 1868, as amended by the Poisons and Pharmacy Act, 1908, is hereby authorised to be in possession of, manufacture, and supply the drugs or any preparation, admixture, or extract of any of the drugs, but always subject to the provisions of these Regulations.

He shall furnish the Secretary of State, or any person authorised by any order of the Secretary of State for the purpose, all information in regard to such transactions as are effected by him in the drugs as required by these Regulations made by the Secretary of State for the purpose.

In the event of any such person being convicted of an offence against the Act the Secretary of State may, by notice in the "Gazette," withdraw the authority aforesaid, if in the opinion of the Secretary of State such person cannot be properly allowed to be in possession of, manufacture, and supply the drugs, provided that the Secretary of State shall, before withdrawing the authorisation in the case of any such person, obtain the concurrence of the Council of the Pharmaceutical Society of Great Britain in the withdrawal of such authorisation.

Any duly qualified medical practitioner or any registered dentist is hereby authorised, so far as is necessary for the practice of his profession within an institution, to be in possession of and supply the drugs.

A record of all supplies of the drugs obtained shall be kept under suitable headings in a book in some part of the premises to which it relates, so that it shall be available for inspection.

Supplies of the drugs shall be permitted to be delivered through unauthorised persons, in sealed packages, when the supplier is reasonably convinced that the order for them emanates from an authorised person at an institution whether by post, telegraph, telephone, or special messenger, and is sent to the authorised person at the institution.

None of the drugs shall be supplied except to the order of a registered dentist or registered medical practitioner, who shall be responsible for their custody and use within the institution; such order shall specify the quantity to be supplied, and the person to whom it is to be delivered.

The supply so delivered shall be labelled in accordance with the provisions of the by-laws under the Pharmacy Acts, and a record shall be kept of all such transactions not being prescriptions for individuals.

Where preparations of raw opium or of the drugs of a strength which brings them within the Act are manufactured in the institution, a record shall be kept under a suitable heading in the book provided to record transactions in the drugs.

A prescription containing the drugs shall state the name or reference of the patient, the date, and the quantity of medicine to be supplied upon the usual institution forms, which shall be preserved for twelve months on the premises of the institution. Every such prescription must be

initialled by the prescriber, and shall not be repeated except upon a medical practitioner's initialled order. . . .

(Schedule (Form of Record).

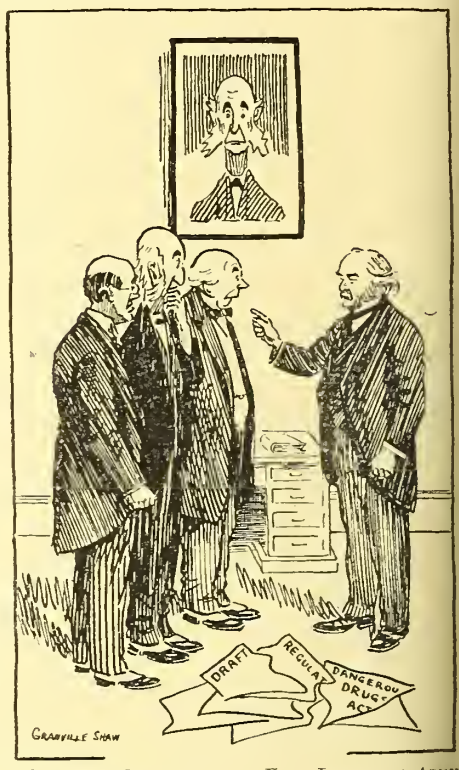
| Date | Name | Amount | | | Form | | |
|---|---|---|---|---|---|---|---|
| From whom obtained | To whom supplied | Obtained | Supplied | Manufactured | Obtained | Supplied | Manufactured |
| | | | | | | | |

## Press Opinions.

We recall only last July, when this Dangerous Drugs Bill was being rushed, we failed to take up the challenge offered in The Chemist and Druggist, and contented ourselves with crumbs offered us from the bureaucrats' table. And now the bureaucrats are surprised that pharmacy sees red. Thank Heaven, it still retains the power. The most gratifying thing we have seen since Lloyd George was prepared to sell the chemists' right to dispense, to medical clamour, this fight for our rights is the most glorious. *Ils ne passeront pas.* In Scotland the heather is all ablaze; in England, from city to village and village to city, the challenge is accepted. The Scottish Federation, the Pharmacists' Union, the Assistants' Union, all are pulling the same way, and the Pharmaceutical Council has placed itself at the head. May it not fail us in this time of need! Oh, for a Memorial Hall with Sir Edward Troup trying to explain the unexplainable! It would do our hearts good. The fight is not yet won, but what we have we hold, and no bureaucrat shall infringe our rights. To all our readers we would say "Keep the fires burning." The slogan is: "The Draft Regulations must be withdrawn." In every by-election now taking place there should be a concentration of effort. Bureaucratic rule must be ended; there is no other way.—"The Script."

Members of Parliament have been bombarded during the last day or two with printed and typewritten material directed against the Home Office's Draft Regulations under the Dangerous Drugs Act, 1920. The Pharmaceutical Society of Great Britain, and especially the North British Branch, is very active in its opposition to these Regulations. Members of Parliament are being asked to support the Pharmaceutical Society's request to the Home Secretary to receive in person a deputation and to set up a joint committee of experts to redraft the Regulations, which in the meanwhile shall be delayed. The general effect of these Regulations is simply to make it more difficult for unauthorised persons to get raw opium and other drugs. But from a Parliamentary point of view the principal interest lies in the way in which members are being bombarded by letters, telegrams, and printed matter in opposition to the Regulations. Rarely has a more skilfully organised propaganda been directed to members of Parliament to influence their views. It is questionable, however, whether such campaigns have now the same influence on members which they would have had at one time.—"Yorkshire Post."

The Real Dopers.—A man named Carlo Invaldi was sentenced yesterday to six months' hard labour for the offence of being in possession of almost a pound of pure cocaine—"enough to dope half London." Here is an incident which shows the utter folly of the proposed Regulations under the Dangerous Drugs Act of 1921. These Regulations will put the general practitioner who desires to prescribe a little laudanum to the gravest inconvenience. He is required to entangle himself in a maze of forms, to take an infinite deal of time in copying and recopying prescriptions. If he be in instant need of morphia he must not telephone to the chemist; he must write out his requisition, and send the document by a messenger. And the chemist will find the Regulations just as tiresome and time-consuming. He will have to imitate the Government and build a shed in his backyard to shelter the necessary scribes. Now it is probable enough that there are a few unscrupulous doctors and chemists who do supply cocaine, opium, and morphia illegitimately. I they are very few. The real suppliers of "dope" Mr. Invaldi and his friends, who are rogues a smugglers, holding no licence from college, hall, pharmaceutical society.—"Evening News," February 2




"Please Remember, Gentlemen, that Your Duty is to Administ the Laws, Not to Make Them."

# At the Counter.

How Long, How Long?—It would be of interest know on what day of the week the following orc forwarded by a Belfast reader (129/44), was written:

Please Mr. —— would you oblige me by pull this boy's tooth till Saturday and oblige. Mrs. ——.

The Lightning Cleaner.—Written order received a Cape pharmacy from a Kaffir customer (40/22):

My dear Sir,—With great beggable, kindly sent good hasty stuff to get clean the stumick from turdy f please to clean once as you taste it which can coast or 1s. a glass equals.

Kaffir Gems.—From a Cape pharmacy string (40/2

Sixpence of Abominated Tinksher of Quineen.
Masmerising Powder. ("Matricaria" supplied.)
Bottle Fastening Tablets. Burrows and Watts'.
Tickey werm toblets the round wons, plese.

A Complicated Case.—From a reader at Pietermar burg (161/10) comes an original order written by Zulu:

Please Doctor
let me have medican my sister she is very ill in stomach she is not got sleep any all days stomach legs the blood it is not come out in my body to dry h been 7 monthes she is not well yet he is sore in the s

Etiquette in Natal.—The following written order fr an "educated" native comes to us from a Grey To (Natal) pharmacy:

My King I wich the tree of sick in the Afri Remade.
——'s African Remedy supplied.—(216/51.)

# Pharmaceutical Society of Great Britain.

## North British Branch.

T fourth meeting of the session was held at 36 York P e, Edinburgh, on February 16, Mr. James Jack, Ph.C., F S., J.P., in the chair. There was a large attendance. T chairman referred in sympathetic terms to the death [r. R. L. Hendry (*C. & D.*, February 12, p. 61) before ng upon Mr. R. Glode Guyer, Ph.C., to give a r on

CULTIVATION OF MEDICINAL PLANTS IN SCOTLAND—PAST AND FUTURE.

T lecture was illustrated by a fine series of lantern-li s prepared by the lecturer from his own photographs n by a series of photographic enlargements. There e also exhibited fresh specimens of belladonna o showing first, second, and third year's growth, radish root, aconite root, colchicum corms, and rum root, and also a two years' growth of rice root showing how luxuriantly the plants grow n e Inverleith soil. There was also an exhibition of specimens of the medicinal plants grown at Inver-

The opening part of the address was a highly esting historical study of the physic gardens existent dinburgh in the middle of the seventeenth century, uthor tracing the details which culminated in the lishment of the Royal Botanic Gardens at Inverleith, burgh, in 1820, and the Chair of Botany in Edin- University. Mr. Guyer then related the circum- s which led to the establishment of a materia a farm by Duncan, Flockhart & Co. at Warriston, burgh, in 1915. The commercial crops include e, belladonna, colchicums, foxgloves, henbane, s, roses, stramonium, and valerian. The experi- l or minor crops include broom, calendula, conium, miles, dandelion, elder, fennel, juniper, liquorice, y grass, and veratrum. There is a specimen also ollected crop naturally grown in Scotland—namely, ern.

NITE (*Aconitum Napellus*, N.O. *Ranunculaceæ*).—This dicinal remedy has experienced many variations in d, and at the present time is regaining popularity. land (whose work as Keeper of the Holyrood Royal s at the beginning of the eighteenth century was ed by the author) grew this drug, and he names it *nitum Cœruleum sive Napellus, Aconitum Cœruleum, m Purpureo Flore*, or *Aconitum Cœruleum vulgare*. nglish names he gives Great Blue Monks Hood, or t Flower. He also enumerates another variety, *um Napellus variegatum*, or the parti-coloured . It is obvious, therefore, that he had many hybrids. xic value of aconite appears to vary, for Hanbury hat in certain localities it is quite innocuous, and can as a salad. Linnæus also says the same thing, and it ise recorded both in India and Lapland, two utterly t climates. In Turner's "Herbal" it is stated of all the poysones it is the most hastie," and this rally the experience of all modern growers and users. rd "Aconite" appears to be derived from a Greek where Theophrastus grew it. The aconite plant is ultivated by using the young roots, which are re- when the plants are dug up in the autumn, to the large mother root. The alkaloidal value of the oot should always be taken. The Scottish-grown 1920 gave 0.69 per cent. The B.P. requires not less per cent. and the U.S.P. 0.5 per cent. ether-soluble kaloids.

BELLADONNA (*Atropa Belladonna*, N.O. *Solanaceæ*).—Bella- s one of the most important medicinal plants. It s of derate antiquity, but apparently was not in general il Squire brought it into prominence in 1860. Per- his want of use is accounted for by its extreme for many of the old herbalists speak of its violent gerous properties. Sutherland grew it, and called *um Officinarium Vulgaris*, Parkinson, or common ade; *Solanum Manicum multis*, or belladonna; night-shade, or *Solanum Lethale*. What is the night-shade? He mentions the woody night-shade *ara*), so it is not this plant. The derivation of the m "beautiful lady" is the traditional one, and the other derivation, that it comes from "Bellona," is due to the old tradition that the priests used to drink an infusion of it till they became intoxicated before they worshipped and invoked the aid of Bellona, the Goddess of War, which is quite reasonable. This plant has proved to be a hardy and sturdy grower in this district, and requires no protection. Mr. Holmes, in the South, recommends that the seeds should be sown in a nursery bed and planted out in favourable weather. This has been found quite unnecessary, but it is very necessary to maintain a strong, vigorous strain, and for this purpose seeds were procured from widely separated districts, and seeds and plants were obtained from the far South of England, from Surrey, Norfolk, and Westmorland, and also from Germany. The belladonna plant was at one time extremely plentiful all through the British Isles, but the collector has practically extinguished it, although it is still to be found in certain places, and these very often near old monastic buildings, which indicate that the plants may be considered as escapements from the old physic gardens so often attached to these religious institutions. Belladonna is a perennial, but for horticultural purposes it is treated as a biennial or triennial plant. The root in three years has attained very large dimensions around Edinburgh; in fact, often so large as to make the lifting a very heavy, and therefore costly, matter, and in consequence two years' growth is quite sufficient. One-year-old roots are just as active as the three-year-old stocks, and to the grower it is merely a matter of expediency which crop he chooses to dig up. The aerial growth is very heavy, two-year plants making five to six feet in the season if not cut for first crop, and if cut in July they make a second growth of two to three feet by September. To obtain a supply of seeds certain plantations must be left uncut, so as to get a crop of seeds for the next season. Moisture is, from a practical point of view, a very important matter. A sample apparently dry to the touch, but not crisp, may have 15 per cent. to 20 per cent. of moisture present. Therefore if a pharmacist was to use a sample of such belladonna leaves, although assayed to contain 0.3 per cent. of alkaloids, he would produce a weaker tincture than if he had used leaves with, say, only 5 per cent. of water present. The alkaloidal factor of this drug is the index to its value. Both the British and the U.S. Pharmacopœias adopt the same standard of alkaloidal value for the leaves, but the B.P. does not require a standard for the root, which is one of those subtle conundrums which this quaint book frequently presents. Plants grown in a hard climate, such as Scotland, gives a good alkaloidal figure, which compares favourably with any others.

| | |
|---|---|
| B.P. ... ... ... ... | not less than 0.3 per cent. |
| U.S.P. ... ... ... ... | ,, ,, 0.3 ,, |
| Indian root ... ... ... ... ... | 0.58 ,, |
| Deck samples ... ... | 0.2 per cent., 0.63 ,, |
| Scott'sh ... ... ... ... ... | 0.78 ,, |
| Squire's Companion ... ... | up to 0.5 ,, |

For roots, the B.P., as just stated, requires no standard, but the U.S.P. standard is 0.45 per cent., and Scottish roots yielded 0.78 per cent. and 0.72 per cent. There is not a great deal of alkaloidal value in the stalks viz., 0.08 per cent. in the autumn. Possibly if taken in mid-season the figure would be considerably higher. Much of the imported Continental root is from *Scopola Carniolica*, another Solanaceæ, and with alkaloids isomeric with those of *Atropa Belladonna*. This plant is grown abundantly in Bavaria and Austria-Hungary. It is a short, bushy plant, about 12 inches high, but, unlike *Atropa*, has horizontal and not a heavy vertical tap root. There is also another substitute which comes from India, occasionally a real *Atropa*, but a variety of belladonna, and is called *Atropa Lutescens*. Belladonna is often confused by the laity with *Dulcamara*, or bitter-sweet, and when the public started to collect herbs many a parcel of dulcamara was sent in for belladonna. This is, perhaps, not difficult to explain, as dulcamara is often called "woody night-shade," and as belladonna is deadly night-shade, to a non-botanical person confusion may arise.

COLCHICUM (*Colchicum Autumnale*, N.O. *Liliaceæ*).—Here, again, is a true medicinal plant, for Hanbury states that Dioscorides drew attention to its poisonous properties, and we find that Gerard says "it is very hurtful to the stomach," but in spite of these cautions it was placed in an official position when it was included in the London Pharmacopœia. Sutherland had a corner for this plant in his garden. He describes it as the Saffron Crocus (*Crocus Sativus Autumnalis*), which settles the point. Fuchs calls it the "Wyld Purple Lillye." The corms are dug up in the summer when the leaves fall, are sliced, and dried. The seeds are collected in the early summer when ripe.

DIGITALIS (*Digitalis Purpurea*, N.O. *Scrophulariaceæ*).—This handsome, attractive plant has been known as possessing powerful medicinal properties for many centuries,

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but apparently it was not known to the Greeks and Romans, for, so far as can be traced, Dioscorides and Theophrastus do not allude to it, but it is found in all our old British herbals, and, according to Fuchs, there is no Greek or Latin name for it. Sutherland runs riot in his list of foxgloves, but he describes this one correctly as *Digitalis purpurea vulgaris*. Then he has a large number of varieties: White foxgloves, flesh-coloured, iron-coloured, yellow-coloured large, yellow-coloured small, bestarred-coloured, and Virginian-coloured. The word "foxglove" is of simple origin. It appears to come from the Anglo-Saxon "foxes glew," due to its similar appearance to a musical instrument they had in those days to frighten the foxes away, which consisted of a string of bells on a wand. This plant grows wild in abundance everywhere, and to many it may appear a needless waste of labour to cultivate it, seeing it is so abundant. The answer to this is that it is impossible to make the collection of the wild leaves profitable. Pharmaceutically digitalis stands out from other medical plants because nothing very definite is known about the value of its active principles. This difficulty of standardisation has of recent years been overcome by the physiologist to a very large extent, and doubtless more and more work will be done by the biological chemist and physiologist, and it is in this direction we must look for a solution of this vexed problem. There is no doubt that physiological testing will become more and more a feature with pharmacists, and it is to be hoped that in the near future the College of Physicians or some other such competent public body will be duly authorised by the General Medical Council to test and certify all such preparations before they are issued.

Henbane (*Hyoscyamus niger*, N.O. *Solanaceæ*).—That great botanist Hanbury states that the British plant *Hyoscyamus niger* is allied to, if not identical with, the South European variety *Hyoscyamus albus*, which was the one well known to the old classic writers. Sutherland grew a variety which he called *Hyoscyamus albus*, and also one *Hyoscyamus luteus*, a yellow kind, and he gives as his English name "common black henbane," which is an uncommon adjective and is not usually employed in English, though always in Latin. The English word "henbane" is supposed to be derived from the Anglo-Saxon "hen bell," but Prior is inclined to think it is derived from the Spanish "hinna"—a mule—*e.g.*, "henna bell," owing to the similarity of its seed-vessel to the bell hung upon the neck of the mules. Though henbane appeared in an early London Pharmacopœia, it was dropped till 1809, when it was reintroduced, and can now be considered as a well-established drug. Botanically this plant offers a great problem—is it a biennial or an annual, or has it two distinct forms? At one time it was a tradition that only the flowering tops gathered from the second year's growth were of any value. In 1898 the B.P. renounced this claim of superiority of the biennial over the annual, but, like all transitions and alterations, the authorities never stoop to offer an explanation to the inquiry or the inquirer. In this case the alteration was a useful one, but it does not explain why, after such a long and loyal adherence to the biennial, the change was made. Several experiments have been made to ascertain whether this plant is a biennial or an annual. The problem has not yet been solved. The henbane is a fickle plant to cultivate, but so far it has taken very kindly to its present habitat. It is a native of Scotland, and grows on the sand dunes of the Berwickshire coast, right down to the tidal line, rooted in the sea-sand and not, as the books say, in the heavy, loamy soil. The annual variety throws up a steady aerial growth, and drives down a stout tap root. It is covered with a mass of thick, clammy, hairy leaves. The flowers are a very delicate pale yellow, strongly marked with thin violet veins. If this plant had only the perfume of a rose it would soon become a most popular decorative garden plant. Henbane easily functionates, and the fruit or capsule is surrounded with a persistent calyx. The biennial differs from the annual in several respects. In the first year it forms a rosette of leaves longer and less hairy than the stalk leaves. It sometimes throws up a flowering stalk, but not often in this climate, though further south this is a more frequent and, in fact, a fairly constant feature. It breaks through the soil early in the season, and, if not checked by the spring frosts, rapidly develops into a very handsome, bold, bushy plant about two or three feet high, covered with leaves and flowering tops. It is not so easy to discriminate between the flowering tops of the two varieties except that as a rule the leaves of the biennial are somewhat closer and heavier than in the annual varieties, but this is not discernible except by direct comparison. Only the leaves and the flowering tops are authorised to be used for Pharmacopœial preparations. Scottish-grown leaves yield 0.082 per cent. alkaloid, calculated as hyoscyamine, and an ash figure of 13 per cent.

Poppies (*Papaver Rhœas Var.*, N.O. *Papaveraceæ*).—This fine old herbal remedy still has a good position in pharmacy, but chiefly as a colouring and flavouring agent. field poppy, *P. Rhœas* and *P. Dubium*, are both very n alike, except that one has a cylindrical capsule and other an ovoid one. These are not profitable for cultivat Sutherland indulged himself in an immense array of t plants, and out of all the varieties it is somewhat puzzle to find which is the one called *Papaver Rhœas* to It is strictly an indigenous plant, and one closely deeply associated with all the countryside.

Roses (*Rosa Gallica*, *R. Damascena*, *R. Centifolia*, *Rosaceæ*).—If there is one part of the "Pharma-Fa more attractive than another to visitors, it is invariably rose plantation. There are over 2,000 bushes, which du the summer months are covered with a profusion of bloss From a strictly botanical standpoint, the rose is no much importance. The B.P. gives two distinct varieti roses: *Rosa Gallica*—dried petals; *Rosa Damascena* water; *Rosa Centifolia*—official in B.P. '85 for aqua r It is very difficult just now to get any of the true Pha copœia roses, for the present-day hybrids have ent effaced the damask rose and cabbage rose of olden Recently the rose has become the source of a new pro in medicine, for the pollen is in demand for the prepara of a vaccine for the treatment of hay fever, and in s cases is more beneficial than the vaccine prepared with grass pollens.

Stramonium (*Datura Stramonium*, N.O. *Solanaceæ*).—F all accounts this plant must be classed as an exotic, b has become so acclimatised that it will grow freely in parts, and is found wild occasionally, in which case generally considered as a garden escapement. Gerard teenth century) states that he had the seeds from stantinople, and they were sent to him by Lord Zouch a with some other packets of seeds. Sutherland had thorn apple (stramonium) in his garden, and gives it a ponderous name, *Solanum fœtidum pomo spinoso oblo* He also describes the purple-flowered type. Little o information can be found as to the origin of the Stramonium, but doubtless it is a corruption of Oriental word. The speaker then described its phy characteristics, stating that, like the other *Solanaceæ*, i poisonous properties and contains 0.375 per cent. of a loids. The U.S.P. requires not less than 0.25 per cent. not more than 20 per cent. ash.

Valerian (*Valeriana Officinalis*, N.O. *Valerianaceæ*).— of the most ancient medicinal drugs known, it was gr favoured by the ancient Greeks and Romans, who used t it "Phu" or "Fu," and it is from this that the confu so often arises between the real medical valerian and garden or red valerian, to which the colloquial name "P is often given. This garden valerian was frequently du and its roots dried and sent in as valerian by colle recently, when there was such a shortage of drugs. Su land describes many varieties of valerian, and it is ticularly interesting to find that he had the Indian val growing which is still sent to Mincing Lane and offere the British market. Hanbury states that, according t habitat, it has many slight variations which some bota take as separate species. Valerian grows quite freely i Tweed valley and on the Fife coast. In the South of land, when once it has a hold of the ground, nothing able to eradicate it. Pharmacists always associate this with an obnoxious odour, but the plant gives only a s smell, and the flowers a perfume reminiscent of mea sweet, but much weaker. It was well known to the A Saxons, who used it as a salad, which supports the fact the odour is not present in the growing plant, but only velops by drying. The plant is propagated by replantin rootlets when the rhizomes and the rootlets are dug up i late autumn. They are very tenacious of vitality, for qu small fragment replanted will produce a full-sized pla the season, and a fully developed rhizome and its roo in the autumn. It grows to the height of about 3 f more, throwing up handsome flowering stalks bearin large number of gamopetalous flowers in an umbel. flowers are a pale violet, but this depends upon th and environment, as in some districts they are white in others pinkish.

Broom (*Cytisus Scoparius*, N.O. *Leguminosæ*).—Su land catalogues the whin bush under the familiar *Spartum*, and he cites several; but the common b officialised in pharmacy he calls *Spartium arbore feminibus*, Parkinson, and *Spartium Hispanicum* f *vulgaris*—the Spanish broom, seen in gardens only. B or spartium, as it is almost invariably called, is t found in all herbals, and was in the Great Herb 1491. It was a royal drug, for it is stated that Henry VIII. was greatly benefited by draughts of it fusion (Gerard). Broom is derived from the same A Saxon word as bramble, broom or brame, and its

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ame, *Genista*, is derived from the Norman word plantagenet," and hence its use as a Royal emblem. Like e elder and juniper, it serves two purposes, first as a ind-screen in the gardens, and secondly, for a supply of young spiky tops in the laboratory.

Marigold (*Calendula officinalis*, N.O. *Compositæ*).—This one of those old-fashioned garden flowers which still iger on in pharmacy, a survival of the old days. Mari- ld is called in the Great Herbal "Mary Gowles," which me authorities appear to think is a corruption of the nglo-Saxon name "Merse-mear gealla" or "Marsh horse- wl," and not, as is frequently thought, a clipped word for Mary's gold. Sloane terms it "Oculus Christi," or the Eye of Christ." Sutherland indexes this plant under its l botanical name *Caltha Vulgaris simplici* for the single wers, and *Caltha Polyanthus Major* for the double.

Hemlock (*Conium Maculatum*, N.O. *Umbelliferæ*).— is is a useful, easily-grown plant once you have your ck established, and one which is always required, though relatively small quantities. It is planted in odd places l small corners not suitable for general cultivation. It l a place in the old physic gardens, and Sutherland gives he old nomenclature "*Cicuta Vulgaris Major—Œnanthe ocata*," which name is now confined to the water hem- k. Hemlock was known to the ancient Greeks extremely l, for it was by drinking an infusion of this herb that rates, the great Greek philosopher, died after his famous l for introducing a new school of thought (B.C. 469). The ltish name, "hemlock," is appropriately derived from the glo-Saxon word "healm," or straw, from which the ent-day "haulm" is derived.

Chamomiles (*Anthemis Nobilis*, N.O. *Compositæ*).—This another interesting old herbal remedy which is still a nless favourite, and innocent of any toxic properties. Scotsmen this drug is of peculiar interest, for the single has for long years been known as the "Scottish chamo- e." Some years ago the late Mr. McEwan, Editor of The Chemist and Druggist, in a private letter, describes when he was a boy the cottagers in the Dee valley to cultivate this herb, and an Aberdeen pharmacist Davidson, of Davidson & Kay) bought the whole crop he district, as the Duchess of Kent, mother to Queen oria, required 28 lb. a year for her Royal household's Sutherland had it in his garden, and he calls it *nœmelum Vulgare Single* and *Chamæmelum flore pleno ble*. It is still official as the expanded flower-heads of *emis Nobilis*, but in the Pharmacopœia of 1885 the l single and double heads were allowed. As no specific uctions are given, at present both single and double be used.

Dandelion (*Taraxacum Officinale*, N.O. *Compositæ*).— is a crop not purposely grown in Scotland, but included is only too easily propagated. The value of land in district makes its production prohibitive.

Elder (*Sambucus Nigra*, N.O. *Caprifoliaceæ*).—This is a useful shrub to grow, as it forms a fine wind-screen, he flowers are always wanted. Sutherland enumerates varieties, including the official, and also the "golden eaf elder," which has become so popular of recent on account of its decorative appearance.

Fennel (*Fœniculum Capillaceum*, N.O. *Umbelliferæ*).— plant has only been grown experimentally as yet, but proved itself a hardy, vigorous grower.

Juniper (*Juniperus Communis*, N.O. *Coniferæ*).—This is r most useful bush for dividing up the various areas, makes a splendid wind-screen, and the berries are s required in small quantities in pharmacy from time e. Scotland is the home of this handsome conifer, there is no question of suitability.

Liquorice Root (*Glycyrrhiza Glabra*, N.O. *Leguminosæ*). is at present on trial only on a medium scale. It roved itself a most excellent grower in this northern and likes the deep sandy soil it has at the "Pharma- " for the roots grow in two seasons to a length of over Sutherland succeeded in growing it, and he gives g description—*Glycyrrhiza vera siliquosa, Glycyrrhiza s siliquosa*.

Timothy Grass (*Phleum Pratense*, N.O. *Graminaceæ*).— an innovation among pharmaceutical plants, and one even Sutherland did not grow. In spite of all the multitudes of synthetic chemicals the cultivation of ass shows that at times we are forced back to Nature supply of our raw material. This grass is grown pollen, which is now used for the preparation of er vaccines.

Veratrum or Green Hellebore (*Veratrum Viride*, N.O. *Liliaceæ*).—The dried roots and rhizome, official in the B.P., 1885, will have a demand, and this crop is one of easy cultivation, as it is a perennial, and propagation by re- plant g the rootlets when digging is all that is required.

Male Fern (*Aspidium Filix-mas*, N.O. *Filices*).—Though not a cultivated medicinal plant, it is one of sufficient importance to be considered in this subject. The male fern is extremely abundant throughout the whole of Scotland. As all pharmacists know, the "extract," as it is incorrectly described by the Pharmacopœia, is in very steady demand, but in the tropics and sub-tropical districts it is in great vogue. The Germans prior to the war used to flood the market with this product, and it was Harrison who exposed the low assay value and sophisticated nature of their product. This was in 1913, and he shows that the filicin value was often under 10 per cent. When Continental supplies were stopped by the war the manufacture of this extract from Scottish roots was commenced on a large scale, and during the past few years several hundred tons of these roots have been gathered and worked in Scotland to meet the demand. The Scottish roots invariably give an oleo-resin which contains over 30 per cent., whereas the B.P. only requires 20 per cent. of filicin. This product is really a Scottish one, for it was Professor Christison, of Edinburgh, who worked out its process of manufacture, and introduced it to the medical profession. Before that time the powdered root was employed, and we read of Madame Nuffer, who made such fame for herself that King Louis XIV. of France appointed a committee of medical men to investigate this secret remedy, and to gain the great secret gave Madame Nuffer 18,000 livres. A German called D. Mathieu also made himself so famous by using the root that Frederick the Great bought the recipe from him, and gave him a pension for life. The collection of the root is a simple matter, but the collector must be carefully instructed how to distinguish from the lady fern. The cross-section of the stem and general character of the growth is quite sufficient to prevent any confusion. In conclusion, he said if the cultivation of medicinal plants is to have a future which Scotland may be proud of, then it calls for the support of all patriotic pharmacists. If the subjects of these isles were as commercially patriotic as they were militantly patriotic during the years of war, there would be no clamorous cry for protection and legislation, and the sword of war would permanently become the reaping-hook of peace. He expressed his indebtedness to Duncan, Flockhart & Co. for permission to give the lecture.

Dr. W. G. Smith, President of the Botanical Society of Edinburgh, in proposing a vote of thanks to Mr. Guyer, said he had enjoyed the historical account leading up to the present Royal Botanic Garden. He had heartily to congratulate Mr. Guyer, who took up this growing of medicinal plants in war-time and he had obtained results very quickly. He desired also to congratulate Mr. Guyer on the very excellent photographic slides which he had shown. He did not think he had ever seen finer botanical photographs.

The Chairman, in conveying the vote of thanks to Mr. Guyer, expressed the indebtedness of the branch to Duncan, Flockhart & Co., who had so readily given all facilities and had sent the exhibit of dried specimens.

Mr. Guyer, in replying, said he wished to express his very great indebtedness to Mr. Blackie, who had assisted him in preparing the photographs and lantern-slides.

Dr. J. Laidlaw Ewing, in moving a vote of thanks to the chairman, said when Mr. Guyer suggested the growing of certain important medicinal plants in Scotland he reminded him that he (Mr. Guyer) was a Devonshire man, and that what might be possible in the genial climate of Devon might not be practicable in Scotland. Mr. Guyer, however, was enthusiastic and had shown what the possibilities in Scotland really were. The question as to whether drug-growing was remunerative necessarily arose. One thing he desired to make clear. It was the wish of the firm that these medicinal plants should be to the fullest possible extent available to teachers of botany and materia medica, and also to students of botany and materia medica.

Attention was directed to additions to the library, and on the motion of the chairman a vote of thanks was awarded to donors of books.

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Uganda Products.—Oil-seed production is capable of wide development in Uganda. Sim-sim, ground-nuts, and castor-oil seed all figure in the export statistics. The value of the output was meagre during the year 1919, however, and only realised 1,008*l.*, 562*l.*, and 468*l.* respectively. The amounts for the preceding year totalled 13,048*l.*, 464*l.*, and 171*l.* respectively.

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# Coming Events.

**This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.**

**Monday, February 28.**

*National Association of Women Pharmacists (Edinburgh Group)*, 36 York Place, Edinburgh, at 8 P.M. Mr. John T. Coats, Ph.C., on "Methods Culled from Experience."

**Tuesday, March 1.**

*National Association of Women Pharmacists (London Group)*, the Lecture Hall, Dr. Williams's Library, Gordon Square, W.C. 1, at 8 P.M. Dr. J. S. White on "The Nature and Use of Biological Products."

**Wednesday, March 2.**

*Liverpool Chemists' Association*, Royal Institution, Colquitt Street, at 8 P.M. Mr. A. F. Porter (Director and General Manager of S. Maw, Son & Sons, Ltd.) on "Business—Impressions and Facts."

*Pharmaceutical Society of Great Britain*, 16 Bloomsbury Square, London, W.C., at 11 A.M. Council meeting.

*School of Pharmacy of the Pharmaceutical Society*, Holborn Restaurant (Crown Room), at 7 P.M. Annual dinner. Mr. E. T. Neathercoat (President of the Pharmaceutical Society) will take the chair. Tickets (10*s.* 6*d.* each) from Messrs. J. E. Booth and L. B. Bradshaw, 17 Bloomsbury Square, London, W.C. 1; or Mr. H. Martin, 22 Graham Street, City Road, N. 1.

**Thursday, March 3.**

*Birmingham Pharmaceutical Association (Employers' Section)*, Chamber of Commerce, at 8.30 P.M. Discussion on the "Retail Pharmacists' Union."

*Chemical Society*, Burlington House, Piccadilly, London, W., at 8 P.M. Meeting.

*London Chemists' Golfing Society*, 17 Bloomsbury Square, at 7.30 P.M. Annual meeting.

*Scottish Pharmaceutical Federation (Edinburgh Branch)*. Mr. J. Miller Thomson on "The Law Relating to Trade Combinations."

"*Ucal*," Connaught Rooms, Kingsway, London, W.C., at 6.30 P.M. Annual dinner. Tickets from Mr. G. W. Evans, 239 Hammersmith Road, London, W.

**Friday, March 4.**

*Scottish Pharmaceutical Federation (Glasgow Branch)*. Mr J. Miller Thomson on "The Law Relating to Trade Combinations."

*Society of Chemical Industry and the Institution of Mechanical Engineers*. Rooms of the Mechanical Engineers, Storey's Gate, London, S.W. Joint meeting at 6 P.M. M. Paul Kestner on "Degassing and Purification of Boiler Feed Water."

London Chemists' Golfing Society.—The annual dinner will be held at the Connaught Rooms, Great Queen Street, on March 17, at 6.30 P.M., Mr. T. E. Lescher, O.B.E., in the chair. Tickets (12*s.* 6*d.* each) from the Hon. Secretary, Mr. G. F. Deeth, 40 Cleveland Park Avenue, Walthamstow, London, E. 17.

Pharmacists' Services Club.—A whist-drive will be held at the Progressive Pharmacy Club, Arundel Hotel, London, W.C., on March 10, at 8 P.M. Single ticket 3*s.* 6*d.*, double tickets (lady and gentleman) 6*s.* 6*d.*, including light refreshments, from Mr. F. W. March, 3 Heslop Road, Balham, S.W. 12.

South-West London Chemists' Association.—The annual dinner will be held at the Holborn Restaurant on March 16.

Tentative Standard for Hydrastis (Golden Seal).—A recent survey of hydrastis roots on the American market in both the whole and powdered state has disclosed that in some instances the material contained excessive quantities of ash and acid-insoluble ash. Upon the basis of the data obtained, the Bureau of Chemistry is of the opinion that hydrastis should contain not more than 8 per cent. total ash or more than 3 per cent. acid-insoluble ash.

An Imprudent Statement.—A correspondent in "The Times Trade Supplement," in the course of a letter with the heading "British Chemists," writes:

In the first place, the chemist's position in this country is not yet properly recognised. There is even confusion in the public mind as to what a chemist is. Men who retail drugs are commonly, but entirely erroneously, called "chemists." They perform a very important service, and have plenty of correct titles—pharmacists, druggists, apothecaries—*but they have no right to be called chemists.* In no other nation is this misnomer in use. As long as it persists here, so long will the lack of identification of the chemical profession continue. Boys of ability cannot widely be expected to be ambitious to become chemists when they do not know what a chemist is.

The italics are ours, but the misstatement is signed "J. Elliot."

# Festivities.

### Hull Pharmacists' Smoking Concert.

An enjoyable smoking concert was held by the Hull Pharmacists' Association recently, at which a large number of pharmacists, their wives, and friends were present, and an excellent entertainment was given by "The Vagabonds."

### Lancashire Chemists' Whist-drive.

The first social gathering since the war in connection with the North-East Lancashire Chemists' Association was held at the Criterion Café, Blackburn, on February 5, when there was a large attendance. The guests were received by Mr. R. H. McMyn (President), who officiated as M.C. The whist winners were Mrs. Barrett, Mrs. C. Critchley, Mr. J. Pomfret, and Mr. Livesey. An enjoyable concert followed.

### Two Boots' Socials.

The staff of Boots, Ltd., chemists (Blackpool), held their annual social and whist-drive recently. Prizes were awarded to the following: 1st, Mrs. Willis and Miss Smith, Messrs. Willis and Turton; 2nd, Miss Strickland and Miss E. J. Wright, Messrs. Lockwood and Ashwell; Booby team, Mrs. Stead, Miss Clitheroe, Messrs. Gaber and Cardwell.—A whist-drive was held by Boots' Athletic Football Club at Newcastle-on-Tyne on February 9. The prize-winners were: *Ladies*—(1) Miss E. Hanning, (2) Miss V. Elston, (sealed) Mrs. A. Bootland; *Gentlemen*—(1) Mr. E. C. Mitchell, (2) Mr. Wm. Dodds, (sealed) Mr. W. I. Ward. The prizes were presented by Mr. Ridley, of the Jesmond branch. Mr. S. Mitchell and Miss Mitchell entertained the company with several musical items, bringing to a close an enjoyable evening. The M.C.s were Messrs. F. Gunn, F. Robson, H. Scurr, and T. Eden.

# College Notes.

Welsh College Debating Society.

A meeting of the Debating Society in connection with the Welsh College of Pharmacy, presided over by Mr. Highfield, Ph.C., was addressed on February 11 by Mr. H. M. Lloyd, President of the South Wales and Monmouthshire Federation, on the subject of "The Promotion of Pharmaceutical Prestige." Mr. Lloyd dealt chiefly with the possibilities of pharmacy in the future, and urged the students not to stop studying after being qualified. Following the address a lively discussion ensued. A vote of thanks to Mr. Lloyd concluded the meeting.

Presentation of Prizes at Brighton.

The prizes gained by the pharmacy students at the Brighton Technical School during the past session were recently presented to them by the Mayor. Two medals, awarded by the Brighton and Hove Association of Pharmacy and the East Sussex Association, were won by Messrs. Shute and Coleman respectively. The former has since entered the Civil Service pharmacy department of the Navy, passing first in all England. In addition, there were ten cheques (awarded by the Pharmaceutical Society) which had been won by the students now training. Mr. C. G. Yates, President of the Brighton Association, and Mr. Cox, secretary of the students' society respectively, moved and seconded a vote of thanks to the Mayor.

Vanillin from Pimento Leaves.—A first shipment of pimento-leaf oil was made to England some time ago and was sold at 10*s.* per lb. It is stated that better results would be obtained from the manufacture of vanillin in Jamaica, the oil having been found to contain more eugenol than clove oil, and the Department of Agriculture of Jamaica is continuing experiments in this direction.

# Trade Report.

**The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.**

### 42 Cannon Street, E.C. 4, Feb. 24.

r is quite evident that prices have not yet reached their west level, and, while this is so, the tendency to limit rders to consumers' barest necessities is still apparent, d more persistent than usual this week, as it is frequently found that when purchases have been made, d the goods taken into stock, the price has further eclined. This lack of stability renders business exceedgly difficult all round, particularly as there is very tle export trade to support the markets. At the same me, there has been slightly more inquiry for crude drugs om the United States, and some business has been ne in dragon's blood, benzoin, myrrh, rhubarb, etc. weaker tendency is observable in gentian, senna, enthol, jalap, balsam Peru, copaiba, honey, gum acacia, d liquorice-root. Cod-liver oil is cheaper on a good eld. English castor oil is 1*l.* per ton higher. Canary ed is easier, fenugreek lower, and cumin seed firmer. nglish refined camphor is 6*d.* per lb. lower. Other anges include a reduction in shellac and turpentine. smuth metal is 5*s.* per lb. lower.

| Higher | Firmer | Lower | |
|---|---|---|---|
| stor oil | Coumarin | Balsam Peru | Petitgrain oil (Parag.) |
| rpentary | Cumin seed | Bismuth metal | Pimento |
| | Nutmegs | Bismuth salts | Pimento oil |
| | | Camphor (Eng. ref.) | Potash iodide |
| | | Camphor oil (Jp.) | Red and white lead |
| | | Cassia oil | Saltcake |
| | | Cedarwood oil | Shellac |
| | | Cod-liver oil | Spike oil (Sp.) |
| | | Cream of tartar | Sugar |
| | | Geranium oils | Tartaric acid |
| | | Liquorice root | Vanillin |
| | | Litharge | Vetivert oil (Bourb. and Jv.) |
| | | Olive oil | Wormseed oil |
| | | Oxalic acid | |
| | | Peppermint oil | |

| Easier | |
|---|---|
| etic acid | Honey |
| ise oil, star | Jalap |
| rgamot oil | Lead acetate |
| is de rose oil | Lemongrass oil |
| tyl chloral hydrate | Linaloe oil |
| cium lactate | Menthol |
| anga oil | Methyl sulphonal |
| namon leaf (Cey.) | Mint oil (Jp.) |
| ves (Zan.) | Nutmeg oil |
| paiba | Potash bichromate |
| atian | Senna |
| uber salt | Soda hyposulph. |
| n acacia | Thymol |

### Cablegrams.

MSTERDAM, February 23.—At the auction of Java cocaes, held here to-day, a dull tone prevailed, and only equivalent of 144 kilos. alkaloid sold out of 2.871 kilos. ed, at the average unit of 28.75 cents per half-kilo., nst 27.40 cents at the January auction.

ERGEN, February 23.—The catch of cod amounts to 0,000, against 2,914,000 at the same period of last , and the yield of steam-refined cod-liver oil to 6,803 olitres, against 4,787 hectolitres at the corresponding of 1920. Market is quiet, medicinal oil offering at , and finest new Lofoten at 150*s.* per barrel c.i.f.

EW YORK, February 24.—Business is quiet, with the wing products offering at lower prices: Sweet oil of , $4.75; peppermint oil in tins, $4.40; Cartagena cuanha, $2.75; jalap, 35c.; belladonna root, 35c.; iba, 38c.; mercury $47.00 per flask; phenacetin, ; antipyrin, $1.50; and milk-sugar, 23c. per lb.

### London Markets.

TIMONY is very slow. Crude stands at 20*l.* nominally e spot and about 19*l.* per ton c.i.f. is the quotation hipment. English regulus has been retained at 40*l.* *l.* for small lots, according to brand. White oxide of ony is called 40*l.*

BALSAMS.—Spot quotations for *Tolu* are from 2*s.* 3*d.* to 2*s.* 4*d.* per lb., with sales at about these prices. *Peru* is easier at 9*s.* per lb., and *Copaiba* is also easier at from 2*s.* 10*d.* to 2*s.* 11*d.* per lb., all spot.

BISMUTH.—On Monday the metal was reduced from 12*s.* 6*d.* to 7*s.* 6*d.* per lb. See "Pharmaceutical Chemicals" for the revised prices of bismuth salts.

BUCHU.—The nominal value of fair round leaf appears to be from 14*s.* to 15*s.* per lb, but the new crop must of necessity bring about lower prices.

CADMIUM.—German agents here quote 5*s.* 9*d.* per lb., although dealers are asking as much as 6*s.* 3*d.* Advices from Silesia, however, state that the metal is becoming very scarce, and this, together with the restriction on German exports is expected here to lead to higher prices eventually.

CAMPHOR (REFINED).—Japanese slabs are quiet, with spot offering at 4*s.* 3*d.* per lb., and March-April shipment at 3*s.* 10*d.* c.i.f. *Crude* is 2*s.* 4½*d.* to 2*s.* 6*d.* as to quality. The English refiners have reduced their prices by 6*d.* per lb., and now quote flowers and tablets at from 4*s.* 9*d.* to 5*s.* 9*d.* per lb., according to quantity.

CASCARA SAGRADA has been in slightly better demand of late with two to three year old offering at 95*s.*, but in one quarter 100*s.* per cwt. is asked.

CASTOR OIL.—French in cases is quoted at 95*s.* per cwt., and the same price is also asked for medicinal Italian in cases. English is 1*l.* per ton dearer at 49*l.* for pharmaceutical, 44*l.* for first pressing, 39*l.* for second pressing, barrels included, at works Hull.

COCOA-BUTTER.—Prime English is quoted at from 1*s.* 6*d.* to 1*s.* 7*d.* per lb. ex works.

COD-LIVER OIL.—Our cable gives the latest particulars regarding the catch and yield of oil, which appears to be exceptionally good. At the moment stormy weather is reported, but that is nothing unusual at this period. Agents in London quote at a wide range, from 135*s.* to 156*s.* per barrel c.i.f. terms. The prospects, however, point to still lower prices.

EGG PRODUCTS steady. Chinese liquid hen-yolk is steadier at 82*s.* 6*d.* per cwt. for prime; and for April-June shipment 65*s.* per cwt. c.i.f. has been paid. Dried yolk is 5½*d.* per lb. on the spot, sprayed whole egg 1*s.*, and native dried whole is 6½*d.* per lb. spot. Prime Chinese hen *albumen* has been sold at 3*s.* 3*d.* per lb. on the spot. For prompt and April-June shipment sellers quote 2*s.* 7*d.* per lb. c.i.f.

FARINA is quiet, Japanese No. 1 offering at 24*s.* 6*d.* per cwt. on the spot, and March-April shipment at 20*s.* c.i.f. Dutch is quoted 21*s.* spot for fine quality, and March-April shipment 19*s.* c.i.f. Sweet-potato flour is 23*s.* per cwt. on the spot.

GENTIAN.—Good French can be had at 55*s.* per cwt. on the spot.

GLUCOSE.—Guaranteed water-white American for February delivery is offered at 37*s.*, and March at 35*s.* 6*d.* per cwt., duty paid, landed terms.

HONEY has been selling at easier rates, including good pale set Jamaica at 65*s.* and ordinary at 55*s.* Good set Australian can be had at 50*s.* per cwt., which has been paid. Amber to light setting Porto Rico can be had at 50*s.*

HYDRASTIS is still very scarce on the spot, the value being about 35*s.* per lb.

IPECACUANHA is steady, with fair Matto Grosso offering at 11*s.* per lb., Minas at 10*s.*, East Indian at 7*s.* 6*d.*, and Cartagena at 9*s.* 6*d.* per lb. About 30 packages sold up to February 23.

LIQUORICE ROOT is cheaper, fair natural offering at 45*s.* per cwt. on the spot.

MAGNESIUM METAL.—German parcels are offering at 4*s.* 3*d.* per lb., and magnesite is worth about 26*l.* per ton.

MENTHOL is easier, with spot sellers of Kobayashi-Suzuki at 26*s.* per lb., and for March-April shipment 19*s.* 6*d.* c.i.f. is quoted. Single tins have been sold this week at 25*s.* 6*d.*

MERCURY has remained quite featureless. There is a fair inquiry, and on account of the rather slender supplies available prices may be easily maintained at 12*l.* 5*s.* to 12*l.* 10*s.* Prices in America have been reported harder

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near $50 per flask, demand being better. There are fair stocks held in New York, but producers are confident. The American representatives of the industry have been urging the authorities to enforce an import duty on the metal owing to the larger quantities coming in from Europe, as the mines are either closed down or working on a limited basis.

Myrrh.—Importers maintain previous prices, offering good pale Aden sorts up to 15*l.* 10*s.* per cwt., dull mixed Aden at 12*l.*, and fair Somali at 9*l.* per cwt.

Oils (Fixed).—The demand for *Linseed* from consumers is not at all brisk, but the undertone is seemingly steady. Makers have fair-sized stocks to work off, but are not pressing sales unduly in anticipation of a more settled market; spot (London) closes at 33*l.* 10*s.* naked, and Hull at 31*l.* *Coconut* is steadier, Ceylon on the spot offering at 60*l.* per ton and shipment at 55*l.* Cochin is 60*l.* for shipment. *Soya* is firm, Oriental for prompt shipment in cases offering at 33*l.* and barrels at 36*l.* per ton c.i.f. English crude is 33*l.* 10*s.* naked on the spot. *Ground-nut* is steadier, Oriental in barrels offering at 35*l.* for February-April shipment. Crude English crushed is 33*l.* 10*s.* to 40*l.* naked, and deodorised in barrels 58*l.* ex mill. Hankow *Wood* oil is unaltered at 55*l.* per ton spot, and c.i.f. is lower at 56*s.* *Rape* is nominal at 46*l.* for crude and 57*l.* net for refined, naked, ex mill. *Cotton* is firm at 31*l.* for Egyptian crude, 39*l.*, naked, for common edible, and 49*l.* for deodorised in barrels—all net, ex mill. *Olive* is quoted at from 11*s.* to 12*s.* per gallon for French edible.

Opium is unchanged, both in London and Smyrna, with practically no business passing. Spot value of good druggists' is about 17*s.* 6*d.* to 18*s.* per lb.

"The Journal of the British Chamber of Commerce of Turkey and the Balkan States," in its February issue, says: Demands appear to have ceased entirely, and the market is weak with a downward tendency. An official notice was issued in London early in January to the effect that within forty days new regulations of control would be announced, and under the circumstances buyers will probably hold off until it is definitely known what further control and regulations are to be enforced.

Senna is easier, good green medium Tinnevelly leaf offering at 8½*d.* per lb. down to 4*d.* for small. Pods offer at from 4*d.* to 5*d.* for ordinary to fair, and for Alexandrian pods from 1*s.* to 1*s.* 3*d.* per lb. is quoted for ordinary to good green.

Serpentary Root is very scarce on the spot, the value being about 12*s.* 6*d.* per lb.

Shellac is lower, the spot price of usual standard TN quality having declined to about 290*s.* to 300*s.* per cwt., compared with 320*s.* a week ago; fine lemon is 385*s.*, fine second orange 335*s.*, RL 1 340*s.*, and AC cakey 330*s.* per cwt. At auction 513 cases salved from *Botanist* sold without reserve for account of whom it may concern, with all faults, comprising ordinary reddish free to blocky TN 210*s.* to 215*s.*, matted to blocky 130*s.* to 155*s.*, and matted to hard block 100*s.* to 140*s.* per cwt. Futures are lower, the sales including March at 230*s.* to 225*s.*, and May at 190*s.* to 165*s.* to 190*s.*, closing on Wednesday with sellers at 175*s.* To arrive, February-March shipment of TN has been sold at 175*s.* to 160*s.* c.i.f.

Sugar.—The Food Controller announces that an agreement has been made with the British sugar refiners for the disposal of all Government stocks of raw sugar. As from February 28 all restrictions upon importations of sugar and all regulations with regard to distribution, dealings, and prices will be withdrawn. The following wholesale prices, fixed by the Ministry of Food, came into force on February 21, and will remain in force until February 26, inclusive:

| | Wholesale, per cwt. Discount 1¼ per cent. |
|---|---|
| 1. Castor, icing, pulverised cubes, loaf sugar ... ... ... ... ... | At 72*s.* |
| 2. Granulated, crystals, crushed and chips, dry white sugar, white pieces (moist) | 67*s.* 6*d.* |
| 3. W.I. grocery crystallised, yellow crystals, W.I. Muscovado (moist), pieces (other than white, W.I. grocery syrups ... | Price must not exceed that fixed for licensed "free" sugar. |
| 4. Jellies, knots, lumps, and other low-grade sugar to be sold only to manufacturers ... ... ... | Uncontrolled. |

The maximum "reasonable" wholesale price for licensed "free" sugar from February 21 until February 26, 1921, inclusive, has been fixed at 67*s.* 6*d.* wholesale per cwt., discount 1¼ per cent. Syrups and molasses will be sold by refiners at prices approved by the Commission. The wholesale prices quoted are those at which sugar will be supplied to direct purchasers by the Commission by refiners. Wholesale dealers through whose hands sugar passes are entitled to the authorised margin of profit on the net cost, and to charge the actual cost of carriage. In addition, certain other charges are allowed for handling and storing, and for breaking bulk where the quantity to be delivered is less than that contained in the original package.

Turpentine.—Dealings in American spirit are very limited, and the market is rather uncertain despite the assumption that the recent liquidation has been about completed. The price has declined to 60*s.* per cwt. for spot and to April.

## Seeds and Spices.

Anise is unchanged at 82*s.* 6*d.* per cwt. for Russian and 76*s.* for Spanish.

Canary Seed is again easier at 65*s.* to 70*s.* per quarter for common to fair Morocco and at 95*s.* for good.

Caraway Seed is slow of sale at 34*s.* per cwt. for good Dutch, and 24*s.* for North African.

Cloves are quiet, with Zanzibar offering at 10*d.* to 10½*d.* per lb., and there are buyers of February-March shipment at 8½*d.* c.i.f., which is firmer.

Coriander Seed is steady for sound qualities; but wormy, of which large quantities have recently arrived, is easier at 10*s.* per cwt.

Cumin Seed is inclined to be firmer owing to the reduction of stocks, and the market is steadier at 20*s.* to 21*s.* per cwt. for ordinary to fair Morocco.

Fenugreek Seed is neglected and holders are willing to reduce the price to 9*s.* 6*d.* per cwt. for small lots at 9*s.* for a quantity.

Nutmegs are firmer, with Singapore 110's offering at 9½*d.* per lb., 80's at 1*s.* 2*d.*, and 65's at 1*s.* 4*d.*

Pimento is easier, with spot sellers at from 2⅞*d.* to 3*d.* per lb.

Pepper.—Both black and white are quiet, and it is thought values have almost reached their lowest point, as most varieties of pepper are being offered at about a pre-war parity. Spot sales include fair black Singapore at 3⅞*d.* to 4*d.* To arrive, February-April and March-May shipments have been sold at 4¼*d.* to 4 5/16*d.* c.i.f. Fair Tellicherry is quoted on the spot at 5*d.*, Lampong at 4⅞*d.* and Aleppy at 4¼*d.* *White* Muntok has been sold at 8½*d.* For February-April and March-May shipment 8*d.* c.i.f. has been paid. White Singapore has sellers at 1*d.* on the spot. To arrive, February-April shipment, the value is 7½*d.* c.i.f.

## Essential Oils.

Some dealers report an improved demand for export. For home consumption a fairly steady number of small orders come along, which seems to indicate that consumers are content to buy for immediate needs. A number of articles have again declined. Star anise oil is on the easy side, and cassia oil is lower, with buyers still expecting a further decline. Other Eastern oils such as Ceylon cinnamon leaf, palmarosa and lemongrass are in limited demand, and bids under current quotations in most cases would secure. Sicilian oils are very irregular, bergamot being easier. Bois de rose and linaloe wood oils are easier. Japanese mint has declined slightly. There is not much inquiry for American peppermint, which is lower. Cedarwood is cheaper owing to better supplies as the demand falls off. Other articles that are cheaper are geranium oils, Paraguayan petitgrain, Spanish spike, vetivert, and wormseed oils.

Anise, Star, is quiet and easier, with spot sellers at 2*s.* 7½*d.* per lb. and sellers at 2*s.* 1½*d.* c.i.f. for March-April shipment. Bids of 2*s.* 6*d.* for spot have not been accepted.

Bergamot is weak and, on the spot, good-quality 36-37 to 38 per cent. l.a., is obtainable at 23*s.* 6*d.* to 24*s.* per lb. To come forward is offered at 21*s.* to 22*s.* c.i.f.

BOIS DE ROSE (FEMELLE) is weak at 22*s*. per lb. for spot and 20*s*. for delivery within fourteen days.

CAJUPUT is in small demand, and from 3*s*. 4½*d*. to 3*s*. 6*d*. per lb. represents the spot value.

CAMPHOR.—Japanese essential white is easier at 160*s*. to 165*s*. per cwt. for spot in drums.

CANANGA.—Fair quality is obtainable at 17*s*. per lb., and from 18*s*. to 18*s*. 6*d*. is asked for better grades.

CASSIA.—For 80-85 per cent. c.a. 4*s*. 6*d*. per lb. is quoted on spot in round lots, and bids of 4*s*. 5*d*. in some directions, it is stated, were refused. Smaller lots could not be obtained under 4*s*. 9*d*. To come forward is unchanged at 3*s*. 9½*d*. c.i.f.

CEDARWOOD is cheaper, sellers on the spot offering at 3*s*. 9*d*. per lb.

CINNAMON.—Ceylon leaf is weak on the spot, and although 6*d*. per oz. is quoted, 5½*d*. would buy.

CITRONELLA.—Ceylon in drum lots is nominal at 1*s*. 6*d*. per lb., and Java at 3*s*. 6*d*.

CLOVE has undergone no change since last week's quotation at 7*s*. 3*d*. per lb. down to 7*s*. for ton lots from distillers.

EUCALYPTUS.—Spot value for 80 per cent. cineol is maintained at 3*s*. per lb., and this figure would be shaded for 60 to 65. Business, however, would be done in some directions at 2*s*. 9*d*. for 70-75 oil.

GERANIUM.—Bourbon has declined further on spot, and from 23*s*. to 25*s*. per lb. would buy good quality. There is not much demand for Algerian at the easier figures of 35*s*. to 37*s*. on spot.

LEMON is still irregularly quoted at from 3*s*. 3*d*. to 3*s*. 9*d*. per lb. for spot, according to holder. Some importers maintain that the forward price cannot be less than 3*s*. 9*d*. to 3*s*. 6*d*. c.i.f. for good oils, but offers continue to be made down to 3*s*.

LEMONGRASS.—Cochin is slightly easier on the spot at ½*d*. per oz.

LIME.—Hand-pressed continues to be in fair demand, and 17*s*. 9*d*. to 18*s*. per lb. has been paid, with 19*s*. now asked. Distilled is not in much request, and quotations are unchanged at 3*s*. 6*d*. to 3*s*. 9*d*.

LINALOE.—Mexican wood is easier at 24*s*. to 25*s*. per lb. for spot.

MINT is quiet with spot sellers of Kobayashi-Suzuki at 4½*d*. per lb. and March-April shipment at 4*s*. 3*d*. c.i.f.

NUTMEG is easier on the spot at 8*s*. to 8*s*. 3*d*. per lb. for spot.

ORANGE.—Sicilian sweet is quiet on the spot with values maintained at last week's prices (13*s*. to 15*s*. 9*d*.). To come forward is quoted at 10*s*. 9*d*. c.i.f. Bitter is offered to arrive at from 7*s*. to 8*s*. 6*d*. c.i.f. and 12*s*. 6*d*. for spot.

PALMAROSA is nominal at 16*s*. per lb. for spot in original pots. Broken bulk is selling at from 17*s*. to 18*s*. per lb.

PATCHOULI on the spot is nominal at 70*s*. per lb.

PEPPERMINT.—American tin oil is lower on the spot at from 25*s*. to 27*s*. 6*d*. per lb. and to come forward is quoted down to 20*s*. c.i.f. Genuine English distilled is offered at 110*s*. per lb. for spot, although 110*s*. and even higher is quoted in some directions.

PETITGRAIN.—Paraguayan is lower on the spot at from 16*s*. 6*d*. to 18*s*. per lb.

PIMENTO is cheaper, and spot is quoted at 20*s*. per lb., but sales would be made at less.

ROSEMARY.—Spanish is unchanged on the spot at from 2*s*. 9*d*. to 3*s*. 3*d*. per lb., according to seller and quantity.

SANDALWOOD.—Mysore Government oil is quoted at 3*s*. 6*d*. for 5-case lots up to 38*s*. 6*d*. for broken bulk. East Indian oil with santalol testing 92-94 per cent. (not Government oil) is obtainable at 37*s*. per lb. in ton 1-cwt. lots spot. West Indian (*ol. amyris*) is unchanged at 25*s*., and West Australian is weak at from 25*s*. to 27*s*. 6*d*.

SPIKE.—Spanish is lower at from 5*s*. to 5*s*. 9*d*. per lb. according to seller. Finest quality on the spot can be bought at 4*s*. 9*d*. per lb. in ton lots.

VETIVERT is cheaper on the spot at 40*s*. to 42*s*. 6*d*. per lb. for Bourbon. Java oil afloat is offered at 70*s*.

WINTERGREEN (SWEET BIRCH OIL) is weak on the spot, and 33*s*. per lb. is now about the quotation for genuine.

WORMSEED is lower on the spot at from 30*s*. to 35*s*. per lb. To come forward 25*s*. c.i.f. is quoted, and a fair amount of business has been done at less.

WORMWOOD.—For the small quantities now being inquired for 95*s*. per lb. is the spot quotation.

### Aromatic and Synthetic Chemicals.

COUMARIN on spot has a firmer tendency and is obtainable at 13*s*. to 13*s*. 6*d*. for German and 15*s*. to 15*s*. 6*d*. for French make. HELIOTROPINE is unchanged at about 14*s*. per lb. spot METHYL SALICYLATE is obtainable at about 2*s*. 9*d*. to 3*s*. per lb. PHENYL ETHYL ALCOHOL, French make of good quality, is obtainable at 35*s*. per lb. THYMOL is easier at about 32*s*. 6*d*. per lb., and even a lower figure is suggested for forward delivery. VANILLIN is easier at 37*s*. 6*d*. to 38*s*. 6*d*. per lb. spot. SAFROL is in fair demand at about 3*s*. 6*d*. per lb.

### Pharmaceutical Chemicals.

BUSINESS continues extremely quiet, and the improvement looked for has certainly not yet taken place. Considerable anxiety prevails as to what effect the proposed Key Industries Bill will have on the market, and both importers and dealers are agreed that it will make the revival of our export trade very difficult. Their view is that home makers by advancing their prices and limiting supplies will make adequate profits, so that the export side will not be troubled about. It might have been thought that the proposed restrictions would have brought about a reaction in prices in favour of sellers, but such is not the case. In fact, at the moment, the declining tendency is still evident. Among the cheaper-priced products are lactic and tannic acids, calcium lactate, guaiacol carbonate, methyl sulphonal, phenazone, thymol, vanillin, butyl chloral hydrate, B.P. creosote, sodium cacodylate. Tartaric acid and cream of tartar are lower. Bismuth salts are 3*s*. 6*d*. per lb. lower, following a decline of 5*s*. in metal. British-made potassium iodide is 1*s*. 3*d*. lower, manufacturers meeting foreign competition.

ACETANILIDE continues extremely quiet, with offers round about 2*s*. per lb.

AMIDOPYRIN is inclined to weaken and ease off further to about 22*s*. to 22*s*. 6*d*. per lb. The market is dull.

ASPIRIN is very irregular. The average price for B.P. quality is 2*s*. 6*d*. per lb., but business has been done at below and above this figure, according to seller and quantity. The home consumption of aspirin has been well maintained so far this year.

ATROPINE SULPHATE continues to be quoted by makers at 37*s*. per oz.; while spot lots are offering as low as 27*s*. 6*d*. to 30*s*. per oz.

BARBITONE continues weak, and is at 15*s*. to 15*s*. 6*d*. per lb.

BENZONAPHTHOL remains unchanged and almost nominal at 9*s*. to 9*s*. 6*d*. per lb.

BISMUTH SALTS.—Owing to the reduction in metal by 5*s*. per lb., English makers of bismuth salts have reduced their price by 3*s*. 6*d*. per lb., and have provisionally fixed them as follows for lots below 1 cwt.: Carbonate, 11*s*. 6*d*.; subnitrate, 10*s*. 6*d*.; salicylate, 9*s*. 6*d*.; and citrate, 10*s*. 9*d*. per lb. net.

BROMIDES.—Potassium is unchanged, with crystals or granulated quoted from 9½*d*. to 9¾*d*. per lb. on the spot, the latter for finest B.P. crystals or granular from makers; market is dull and unsettled, and for forward delivery quantity can be had at slightly less. Finest *sodium* from the makers is quoted at 11¾*d*. and *ammonium* at 1*s*. 0½*d*., with dealers offering at slightly under.

BUTYL CHLORAL HYDRATE is still easier than last week, now offering at 14*s*. to 15*s*. per lb.; there is practically no demand.

CAFFEINE.—Pure is unchanged at last week's price of about 29*s*. per lb.

CALCIUM LACTATE is slightly easier, and now quoted at 2*s*. 9*d*. per lb., but there is not much demand, and competition is keen.

CHLORAL HYDRATE is unchanged and quiet at 3*s*. 6*d*. to 3*s*. 9*d*. per lb. in bond, and is cheaper to come forward from U.S.

CITRIC ACID.—B.P. crystals are in good supply but little demand, and prices are about the same at 2*s*. 2*d*. per lb., less 5 per cent.

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Cocaine.—Hydrochloride is selling at from 13*s.* to 13*s.* 6*d.* per oz., as to quantity.

Cream of Tartar is again lower, 99 to 100 per cent. foreign powder selling at 135*s.* per cwt.; demand is confined to small lots only.

Creosote.—B.P. is a little cheaper this week, now offering at 4*s.* 6*d.* to 5*s.* per lb.

Creosote Carbonate is still quoted at about 18*s.* per lb., but there is very little inquiry.

Eucalyptol is quoted on the spot at from 4*s.* 6*d.* to 5*s.* per lb., according to quantity.

Guaiacol Carbonate is very weak, and the price to-day shows up lower at about 15*s.* 6*d.* per lb.

Hexamine is being maintained, but is not firm at about 6*s.* 6*d.* to 6*s.* 9*d.* per lb.; market is dull.

Homatropine.—The pure alkaloid is quoted at 70*s.* to 75*s.* per oz., and homatropine hydrobrom. at 50*s.* to 55*s.*

Hydroquinone is inclined to be a little firmer in some quarters, but it can still be bought at 5*s.* per lb.

Lithium Carbonate.—American can be had at about 8*s.* 6*d.* on the spot.

Methyl Sulphonal has declined slightly, and is now freely offering at about 19*s.* per lb.; but the demand is poor.

Paraformaldehyde remains at 4*s.* per lb., but prices are easy on a quiet market.

Phenacetin is maintained by leading holders at 9*s.* 3*d.* to 9*s.* 6*d.* per lb. on a quiet market. It can, however, be bought at 8*s.* 6*d.* in cwt. lots.

Phenazone.—Fair current values are from 9*s.* to 9*s.* 6*d.* per lb., with an occasional seller at slightly less. Both French and German makers continue to quote higher than what dealers offer at.

Phenolphthalein keeps very steady at 5*s.* 6*d.* to 6*s.* per lb. Limited business only.

Piperazine is unchanged at last week's figure of 4*s.* 9*d.* per oz.

Potassium Iodide.—The English makers have reduced their prices by 1*s.* 3*d.* per lb., and now quote for 1-cwt. lots and upwards 14*s.* 9*d.*, 28-lb. lots 15*s.*, 14-lb. lots 15*s.* 3*d.*, and smaller quantity 15*s.* 6*d.* per lb. net. Crude iodine is unchanged at 1*s.* per oz., the foregoing reduction being due to foreign competition.

Potassium Permanganate remains unsettled and weak. Quotations range from 1*s.* 9*d.* per lb. upwards for guaranteed B.P. material. A moderate business is passing.

Potassium Sulphoguaiacolate is nominally at about 11*s.* to 11*s.* 6*d.* per lb. There is no demand.

Quinine meets with a small inquiry, sulphate offering at from 3*s.* 6*d.* to 3*s.* 7½*d.* per oz. Hydrochloride can be had at 4*s.* 3*d.*, and bisulphate at 3*s.* 4*d.* Arrivals amounting to 229,400 oz. quinine and salts have taken place from Java.

Quinine Ethyl Carbonate is fairly steady at about 6*s.* 6*d.* per oz., but there is but small inquiry.

Resorcin is generally offered at about 9*s.* to 9*s.* 6*d.* per lb., but there is little demand, and prices are easy.

Salicylic Acid.—B.P. quality is about 1*s.* 2*d.* to 1*s.* 3*d.* per lb.

Salol continues to be offered, with little demand, at 3*s.* 9*d.* per lb.

Sodium Benzoate is weak, with prices easy at about 2*s.* 2*d.* per lb.

Sodium Cacodylate is again slightly lower on a quiet market at 21*s.* 6*d.* per lb.

Sodium Diethylbarbiturate is nominally 25*s.* per lb., but there is no demand.

Sodium Salicylate is maintained at last week's prices at 2*s.* 4*d.* per lb. for B.P. Demand is not at all good.

Sulphonal is unchanged, and seems fairly steady at about 19*s.* 6*d.* to 20*s.* per lb. Market is quiet.

Tannic Acid.—*Leviss*, B.P., is inclined to weaken, but still quoted at about 5*s.* to 5*s.* 3*d.* per lb.

Tartaric Acid is weaker, with an offer to sell at 1*s.* 8*d.* per lb., less 5 per cent., from which quotations run to 1*s.* 10*d.*

Terpin Hydrate remains weak and quiet, with quotations at about 4*s.* 6*d.* per lb.

## Heavy Chemicals.

*Wednesday, February 23.*

Values during the past week have, in the majority, been maintained, but the tone of the market is extremely unsatisfactory. Business is being done on the smallest of dimensions only, and buyers continue to dictate terms. Acetic acid is again weakening. Oxalic acid is much cheaper. Saltcake has fallen considerably, and stocks are now freely offering at prices stated, but are likely to go lower before they are cleared.

Acetic Acid meets with a small demand; 80 per cent. pure is about 53*l.*, 80 per cent. technical is about 49*l.* and glacial about 59*l.* to 60*l.* per ton; a quiet and unsettled market.

Alum continues to be offered, with little success, at about 18*l.* 10*s.* for lump in casks; values are maintained but are not firm.

Arsenic is still without demand, and prices are nominal at about 50*l.* per ton for white Cornish powdered and 45*l.* for Australian.

Barytes is lifeless, and values are nominal at 6*l.* for grey, up to 10*l.* 10*s.*, per ton, according to quality.

Bleaching Powder keeps very steady, although there is but small demand; quoted at 22*l.* per ton.

Borax remains dull; spot lots now offering at about 38*l.* for crystals and 39*l.* for powder, but there seems to be no outlet; makers' prices unchanged at 38*l.* for crystals and 39*l.* for powder.

Copper Sulphate.—Some makers who turn out this as a by-product are relatively cheap sellers at about 33*l.* per ton for casks, less 5 per cent. f.o.b. Liverpool. Cost of labour and of manufacture as a whole being gradually reduced, the market was not affected by the recent strength in copper, and competition for new export orders is keen. This season's prospects are very uncertain although the first month of the year showed big shipments.

Epsom Salt continues a quiet market, with prices easy, but maintained at about 7*l.* 10*s.* per ton for commercial quality.

Formaldehyde is only moving in small lots occasionally but the price remains at from 120*l.* to 125*l.* per ton, as to quantity.

Glauber's Salt is inclined to ease off, and now offering at about 6*l.* 10*s.* to 7*l.* per ton, with but few small sales.

Lead Acetate has fallen slightly during the week and sales are few and far between, now offering at 55*l.* for brown broken and 57*l.* for white crystals.

Lead Products.—Decidedly depressed conditions have been experienced, due to the continuous slump in pig lead, which has dropped again considerably this week and shows a loss of over 4*l.* per ton since the close of January. The demand for lead-oxides, as well as white lead, has continued slack, while there is some fear of labour difficulties in the painters' trade in Lancashire. Towards the close of last week terms for red lead and litharge were put down 20*s.* per ton, making the home prices ranging from 39*l.* to 41*s.* 10*s.*, according to quantity, delivered free to works, less 2½ per cent discount. English Orange lead was reduced 20*s.* to 60*s.* per ton. A quality varying from 49*l.* to 51*l.* 10*s.* and AA quality 51*l.* to 53*l.* 10*s.* Dry white lead was lowered 30*s.*, ranging from 53*l.* 5*s.* to 59*l.* 15*s.*, according to quantity, for the home trade, while the reduction in white lead in oil was 35*s.*, rates being 60*l.* 5*s.* to 67*l.* 10*s.* per ton according to quantity, delivered free to works, less 5 per cent. discount.

Lime Acetate is unchanged and quiet at 22*l.* for grey 80 per cent. and 32*l.* for 92 per cent. material.

Lithopone is still being inquired for, and prices are fairly steady at 30*l.* for 30 per cent. Continental red seal and 37*l.* per ton for green seal.

Oxalic Acid has fallen considerably, and the market remains both quiet and unsettled at about 10*d.* to 11*d.* per lb.; only very limited business is being done.

Potash Caustic continues to be uncalled for, and prices are very unsteady and inclined to weaken at about 52*l.* per ton.

Potassium Bichromate continues to be inert, and values re now down to about 11*d.* to 1*s.* per lb. with still but ttle demand. Makers' prices continue to be quoted at 1*d.* per lb.

Potassium Carbonate is nominally at about 54*l.* per n; there appears to be no demand. Makers' price is ill 50*l.* per ton.

Potassium Chlorate is unchanged for spot lots at 6*d.* 7*d.* per lb.; makers' price is unchanged at 6*d.* per lb.

Potassium Permanganate.—Commercial quality conues to be offered by makers at 2*s.* 3*d.* per lb.; spot ts of imported offer at a lower figure of about 1*s.* 6*d.* r lb. upwards. Market is quiet and not firm.

Saltcake has declined from last week, and is now offerg with but little movement at 9*l.* per ton in bags and 10*s.* to 8*l.* in bulk, at which figure it is by no means m; further falls may yet be experienced.

Soda Ash (58 per cent. light alkali) is offering on spot about 10*l.*, but there is not much demand; makers' ice for home trade only is unchanged at 8*l.* 10*s.* per ton.

Soda Crystals continue to be offered by makers at 7*l.* ton carriage paid, with a fair demand; spot parcels offering at 8*l.* per ton, but are not being asked for.

Sodium Bichromate continues to be offered by makers 10*d.* per lb., spot lots obtainable at about 8*d.* per lb. nerican material is also offering prompt c.i.f. United ngdom and Continent.

Sodium Caustic is now offering for spot parcels at about . to 22*l.* per ton f.o.b. with little demand; makers' ce quoted unchanged at 24*l.* 10*s.* per ton. American per cent. material is offering at competitive prices c.i.f. ited Kingdom and Continent.

odium Cyanide is still offering by makers f.o.b. at ut 1*s.* per lb. 100 per cent. basis, but there is small uiry.

odium Hyposulphite has gone off in demand, and pea stals in sound kegs has now declined to about 25*l.* 10*s.* ton and commercial quality at about 20*l.* per ton in s or bags; makers' price for commercial quality is ut 20*l.* per ton.

odium Nitrate continues to be offered by makers at per ton for 92 per cent. refined f.o.r. Liverpool.

odium Prussiate is offering on spot at about 9½*d.*, makers' recently reduced price of 8½*d.* is maintained; ket is unusually dull.

odium Sulphide.—Concentrated 60 to 66 per cent., ed by makers at 30*l.* per ton. Spot parcels of 60 to er cent. solid material are obtainable at about 29*l.* to ; there is very little inquiry and spot prices are easy.

odium Sulphite is still nominally 34*l.* per ton for drous material; no business recorded.

n Crystals are unchanged at makers' price of 1*s.* 7*d.* b. on a very quiet market.

nc Oxide is very dull, about previous rates. Zinc is in poor demand. English and Australian high- e ranges from about 70*l.* to 80*l.* per ton delivered.

al-tar Products.—Prices of all items are quoted as last week. There is practically no business being , consequently figures may be taken as nominal in ases. Beta-naphthol is likely to firm up in the near e, and may possibly advance, as imports are now cted under the Dyestuff Act.

## amburg Drug and Chemical Market Report.

*February* 19.

mpathy with the uncertainty of the political outlook, hemical and drug market is irregular and prices ate. There is no spirit of enterprise abroad. The trade continues to dwindle, and consists of small orders r-diminishing extent; on the other hand, exports were . The following quotations are in marks per kilo.:

tanilide has been in considerable demand for export 8; the price for Germany is m.23.

ic Acid (80 per cent.).—The price for Germany has dvanced to m.12.50, and for export to m.13.50.

rylsalicylic Acid.—At the low figure of m.55 thousands os. have been purchased by foreign buyers, and the in dealers' hands are being very considerably cleared; ore an advance in price is to be reckoned with shortly, nanufacturers insist upon their price of m.100. It is l at m.50 for Germany and at m.60 for export.

onium Bromide has been bought at m.25.

pyrine.—Genuine has declined to m.250, while the substitute is quoted at m.230 for Germany and also for export.

Benzaldehyde, almost free from chlorine, for foodstuffs, seems to have reached its lowest quotation at m.45, and m.40 for orders of 1,000 kilos.; it is in brisk demand from all quarters.

Caffeine.—Pure is scarce at m.850. Caffeine salts have declined to m.525 for sodio-benzoate and sodio-salicylate.

Citric Acid.—In spite of important transactions, the price for Germany has declined to m.65, and for export to m.70.

Coumarin.—Manufacturers have reduced the price from m.500 to m.300; it is offered at m.300 for export and m.290 for Germany.

Cream of Tartar (98 to 100 per cent.).—In spite of being in good demand, the price has dropped to m.32 for Germany and m.34 for export.

Ergot has been in good demand, and Spanish is cheap at m.170.

Guaiacol Carbonate is obtainable at m.400.

Heliotropine has declined to m.325.

Hexamethylenetetramine is in demand by foreign buyers at m.150, while the price for Germany is m.120.

Hydroquinone is scarcer and in demand at m.125 for Germany and m.140 for export.

Lycopodium.—Genuine is in greater demand than supplies are forthcoming; obtainable only in small amounts at m.500.

Menthol.—In consequence of the appreciation in the German exchange the price has dropped to m.700 for purchases of original cases of 12 tins of each 5 lb.; broken bulk at m.725.

Milk-sugar.—Considerable transactions have taken place at the lower figure of m.28.

Oxalic Acid.—The price for Germany has declined to m.14, and for export to m.20.

Phenacetin.—Large offers emanating from holders obliged to unload have caused the price to drop to m.130 for Germany and m.150 for export.

Phenolphthalein.—Compulsory unloading of stocks has reduced the price to m.60 for Germany and m.70 for export.

Potassium Bromide is being purchased almost exclusively by foreign buyers, and the stocks, which at one time were very large, are being cleared; it is therefore advisable to buy at m.17.

Potassium Chlorate.—The price for Germany is m.6, and for export m.7.

Potassium Permanganate for Germany is m.38, and for export m.45.

Potassium Sulphoguaiacolate has declined to m.200 for Germany, and to m.210 for export.

Pyramidon.—Genuine has declined to m.600 for Germany and m.650 for export.

Quinine.—Only small stocks are available at m.1,600 for Germany and m.1,750 for export.

Salicylic Acid has been in demand for export. Price for Germany, m.28; export, m.30.

Senega was in slight demand at m.130.

Silver Nitrate.—In consequence of the fall in price of silver the price has declined to m.675 for Germany and to m.725 for export, in spite of the scarcity of stocks.

Sodium Benzoate is cheap and in demand at m.40.

Sodium Salicylate is scarce at m.40.

Tartaric Acid.—The unloading of large local stocks, partly in the hands of persons unable for financial reasons to retain them, has resulted in a decline. For Germany, granular and powder are quoted at m.42 and the scarcer crystals at m.46; export prices are m.45 and m.48 respectively.

Theobromine Sodio-salicylate.—First quality is quoted m.500.

Vanillin.—The price for Germany has been reduced to m.1,075, and for export to m.1,100.

## Overseas Trade.

The K form system of the Department of Overseas Trade has now been superseded by a new and improved system. It was taken over by the Department during the war from the Foreign Trade Department of the Foreign Office, by which Department it was devised. The cover-form has now been abolished, together with Key Form No. 2, and a good many of the questions contained in the old form. A new and simplified form has been devised, and includes the following questions: (1) Name and address of firm, (2) general nature of firm's business and capital where possible, (3) principal goods required, (4) name of firm's agent in the United Kingdom, (5) language in which correspondence should be carried on, (6) remarks. The form will apply in future only to firms regularly importing goods, whose financial position, after due investigation, appears to be sound. The reports are made available to traders through the medium of the Association of Chambers of Commerce, the Federation of British Industries, and certain other trade associations.

### Dangerous Drugs Regulations.

SIR,—Since writing my letter which appears in the *C. & D.*, February 19, p. 74, there has been a further exchange of views with the Home Office, with the result that a special scheme is now being evolved for hospitals. I am not at liberty at the moment to state the details, but my fellow hospital-pharmacists may rest assured that it is a workable scheme, involving very little extra work, and is very satisfactory. I should like to state that the Home Office has afforded every facility for the full discussion of the subject. Incidentally, the idea that the Draft Regulations prohibit a hospital-pharmacist from manufacturing preparations or admixture of these drugs seems to be altogether erroneous.

Yours faithfully,
F. A. HOCKING.

London Hospital, London, E.

SIR,—The memorandum of the Executive of the North British Branch with reference to the Draft Regulations under the Dangerous Drugs Act is far and away the most exhaustive commentary which has been made, and with their characteristic thoroughness and promptitude in dealing with such situations, the Scottish pharmacists have shown conclusively that these Regulations are entirely unnecessary and ought to be withdrawn *in toto*. In fact, to use the phrase which is at the end of paragraph 24, and which pleased me more than any other wording in the memorandum, the whole thing is monstrous. But the great point, which I find many pharmacists do not yet fully comprehend, is that these Regulations, as at present drafted, entirely overrule the Pharmacy Act, and take away from the registered chemist the fundamental basis of his profession—namely, the statutory right to act as a retailer of scheduled poisons under the Pharmacy Acts. These Acts were called into being to regulate the promiscuous sale of dangerous drugs and to confine such sales to a class of qualified men duly trained for the work, and an important part of the Qualifying examination deals with the proper keeping and selling of poisons; and, in the fifty odd years that the first Pharmacy Act has been in existence, the cases in which a holder of the Pharmaceutical Society's certificate has been guilty of a breach of the trust imposed in him are so few and rare as to be practically non-existent, and can certainly have had no bearing on the drafting of the Regulations. Furthermore, in the wording relating to the sale of poisons there is no mention of the necessity of a medical prescription, and to introduce such a clause is to make the pharmacist a subsidiary to the doctor and to do away with his independent sales, already fully safeguarded, altogether. Among other criticisms the British Medical Association point out in reference to Regulation 6 that it is customary to enter all prescriptions in a day-book (where the doctor does his own dispensing), but in a recent case there was apparently no adequate record kept, and it was one of the points of the case as to whether opium or morphine had been administered, so that the necessity of dispensing doctors keeping a compulsory record becomes apparent, but a pharmacist is already obliged to enter such transactions in his prescription-book, so that there is no necessity for fresh legislation on this point. At the same time pharmacists will be ill-advised to accept any promise of the possibility of separating prescribing and dispensing as a sop to the work entailed under the new Regulations; this in itself is a matter which calls for rectification, as this country is still back in the Middle Ages in respect to such a dangerous and antiquated practice, and perhaps the present crisis will lead to more light being thrown on this matter. But, however desirable such a separation may be, it should not be accepted as a compensation for going behind the laws relating to pharmacy, as, if it we, the Pharmacy Acts would be automatically rescinded

Yours faithfully,
MONSTROUS (19/1)

### Andrew's Liver Salt.

SIR,—We have read with interest the letter in t *C. & D.*, February 19, p. 76, from Mr. E. S. Francis, Birmingham, a valued customer of ours, whose opini we esteem. In considering our new scheme we realis that the hearty co-operation of the trade was essenti and a satisfactory margin of profit to our customers w our first consideration. We are pleased to say it l caused general satisfaction. With regard to the perce age of profit on the large-size tin, it has to be remember that for all purposes of discount and rebate one gr large size equals two gross small size, and orders n be assorted for both sizes to qualify for our best rat Surely it is better to sell two tins at a margin of pr ranging from about 21 per cent. to 26 per cent. than o tin at 25½ per cent. to 30 per cent.? There is, after only one handling, and, although the percentage is little smaller, we are sure that the increased trade w amply recompense our customers. Under our "seas order" scheme, moreover, customers are able to m approximately a further 6 per cent. profit on a proport of their purchases, and, indeed, it is quite possible make an average profit of nearly 33 per cent. under t heading. We shall be very pleased, on receipt of reque to send particulars of this scheme to anyone interest May we say how much we appreciate the interest wh the trade have always taken in our product, and t we, on our part, are only too anxious to co-operate in ev way possible to our mutual advantage.

Yours faithfully,
For SCOTT & TURNER, LTD.,
S. TRAVES, Sales Manager

Newcastle-on-Tyne.

### Apothecaries' Assistants' Claim.

SIR,—Referring to a letter by "A Barrister-at-Law which appeared in the *C. & D.*, February 19, p. 75, should like to point out that my letter in "The Lance has not been correctly interpreted. No reference w made to "public and private pharmacies." The let distinctly states apothecaries' assistants "engaged as d pensers to hospitals, institutions, medical practitioners private practice, etc.," and the remarks refer only to th persons so engaged. The Pharmacy Acts confer u certain persons the right to keep open shop for the s and dispensing of poisons. The certificate conferring t right is therefore a business or trade licence or qualifi tion. It was not until more than fifty years after establishment of the apothecary's assistant that the 18 Act came into force. The apothecary's assistant statutorily qualified as a dispenser of medicines, wh term includes all substances used in medicine—poisons otherwise. He is not in any way connected with keeping of open shop, and the apothecary is now a reg tered medical practitioner. His qualification is therefo purely professional, and, as stated above, he was the fi and is now the only non-medical person statutorily qualif in professional pharmacy. It has not been suggested t the apothecary's assistant is in any way legally qualif to dispense for a chemist. Incidentally it has, howev been noticed that many pharmacists engage persons w this qualification, but omit to pay a salary in proporti There is no statutory qualification for the position of d penser to an institution or similar body, except when apothecary is on the medical staff, and in that case o an apothecary's assistant may be employed.

Yours faithfully,
H. C. RICHARDS,
Hon. Secretary

Association of Certificated Dispensers,
46 Hathaway Road, Croydon.

SIR,—"A Barrister-at-Law's" letter is not quite c vincing, to my mind, and does but little to undermine t soundness of Mr. Richards's contention. The apot caries' assistant came into being in 1815, the statutor qualified chemist in 1852, so the former is easily first

ie field. As to the extent of the two qualifications, the ey is provided in the restrictions imposed on the general ublic by the concerned Acts. The Apothecaries Act nalises any person, not being an apothecary, or his sistant, who dispenses medicines, whether poisons or n-poisons, for the patient of the prescribing apothecary ection 20). The latter portion of Section 15 of the harmacy Act, 1868, preserves this penalty. The restric- ons imposed by the Pharmacy Acts concern in the main heduled poisons, a comparatively small number of sub- ances, which may not be dispensed in a certain place—n open shop"; in other words, all the other varied nctions of a retail chemist may be performed by any rson so long as he does not infringe the Regulations pecting "poisons," and even these "poisons" may be pensed by any person in places other than "open ops"—scarcely a legal qualification in the entire field pharmacy. For strictly legal purposes the apothecary of course, now practically non-existent. The dispens- doctors referred to by "A Barrister-at-Law" are *facto* apothecaries certainly, but not *de jure*, which t shows the necessity for legislative adjustment and a greater exhibition of the "live-and-let-live" prin- le on the part of the pharmacist, who has come into present position by a cuckoo-like process.

Yours faithfully,
Mentor (21/2).

### Inspected to Death.

ir,—I read with much amusement the paragraph hded "Inspected to Death" which appeared in the C. & D., February 12, p. 56. Nearly all these inspec- ts are directly traceable to the present system o taxation. Everybody is crying out about taxes, one sort or another, but it does not seem to occur er to our legislators or to the public that there is a simple way out of the present taxation muddle, efulness, and injustice. Let all present indirect taxa- ti be abolished, and the necessary revenue now so raised ot ined by a single, properly graduated, differentiated, ar collected income-tax, to be paid by all persons over tv ty-one years of age. Income-tax books could be s d (as were ration books) to all men and women of age, so ranged that a proper record of income, from whatever so e, could be kept therein, these books being audited at itable intervals by the collectors, who would issue la s in accordance with it, as now—the present scales to e carefully revised and graduated, so as to arrange th all contribute an equitable proportion of their act l income (above a limited minimum), with suitable all ances and charges. Many persons at present lia for income-tax escape it altogether, and there sh d, therefore, be heavy penalties for inadequately ke income-tax books, which could be so arranged as to ma their proper recording perfectly simple for the least di ted. The percentage in the pound could be gradually inc sed as other taxes were removed, so that the neces- sar revenue was obtained; the adjustment of these per- cen ges would eventually be all that was necessary, these ris or falling according to the needs and policy of the Go nment.

Yours faithfully,
Dudley Stone.

1 Abingdon Road, London, W. 8.

### Qualified Assistants' Remuneration.

S —In reply to "Nil Desperandum" (*C. & D.*, Feb ary 12, p. 78), I am glad he does not begrudge a qua ed man 260*l.* per annum. I am sorry that I mis- und stood him, and I agree with him that his business can stand such a salary. I do not think, however, that 3*l.* . per week is a living wage for an unqualified man. The re-war wage for such a man was about 30*s.* per wee and the equivalent to-day is 4*l.* per week. On pre- r values this should be the minimum wage for an unq ified man with perhaps six years' experience. The pre- r reward of qualification was generally 10*s.* per wee and the cost of qualification about 75*l.* To-day, with compulsory nine-months' course, it is at least 150*l.*, so t , the equivalent reward is 1*l.* a week, making the mini m wage of a qualified man 5*l.* per week. The trouble is that a minimum wage generally becomes the maximum as well, but if employers would adopt the suggestion put forward by "Conspectus" in his letter (*C. & D.*, February 12, p. 80), the difficulty would be avoided and increased benefits both to employers and to employed would ensue. With regard to stocks, I still maintain my argument that approximately 700*l.* of stock is sufficient for a turnover of 3,000*l.* It is sufficient in the business I manage. As most businesses are overstocked, such a one can rarely be bought, and when such a business is to be sold a larger sum can be got for goodwill than is generally the case. A dispensing business which has to carry stocks of expensive and little-used drugs is generally compensated by the smaller stocks of patents and proprietaries, and a business having a patent trade of 1,000*l.* (cost) per annum ought to be carried on with an outlay of 250*l.* Buying for quick sale and not for discounts should be the main object, for the quicker the money is turned over the smaller is the amount of capital locked up.

Yours faithfully,
Q. A. (16/2).

Sir,—Allow me to make a few remarks with reference to the letter of "Nil Desperandum" (*C. & D.*, January 29, p. 78). He says that with a turnover of 3,000*l.* per annum he cannot afford to pay a qualified assistant 5*l.* per week, and adds that the average business cannot stand it. He then goes on to say that he has engaged an ex-Service man, unqualified, for 3*l.* 10*s.*, which is the maximum his business will allow. I have been a good many years in business, but my turnover has never exceeded 1,500*l.*, and at the present moment I am paying my unqualified assistant 3*l.* 7*s.* 6*d.* But if "Nil Desperandum" is right, I cannot afford to pay more than 1*l.* 15*s.*; or, in other words, I am paying 1*l.* 12*s.* 6*d.* too much, so I should fall back on apprentice labour, as I cannot get an assistant at 1*l.* 15*s.* I should like to hear the views of some other chemists on this question. My business is in a country town where the doctors do their own dispensing. I have to depend on counter-prescribing (both for cattle and humans) and general retail. I only do about eighteen medical prescriptions per week, including repeats, from city or outside sources, so that prescriptions in my case are just a "profitable side-line." But—there is no price-cutting.

Yours faithfully,
Irish Chemist. (21/2.)

### The Chemist's Dress.

Sir,—Your correspondent, Mr. Septimus Walgate, is a delightful controversialist, and I can assure him that his letters have given me the greatest pleasure. Having joined issue with my first letter, Mr. Marshall might at least attempt to answer my second. He compares the surgeon and dentist performing surgical operations with the front-counter pharmacist selling toilet requisites and handing out proprietary and patent medicine, and last, but not least, "counter prescribing." Your correspondent "Conspectus" rightly says that the assistant clothed like a grocer is not the pharmacist of the customer's imagination, and it is not likely he will command his confidence as a "counter physician." Mr. Walgate loves his Shakespeare, I know, and would like to be reminded of "They will know us . . . by our habits" (I. Henry IV., I., 2), and "Ye know me by my habit" (Henry V., III., vi., 121). Shakespeare was a great believer in dress, and in "Twelfth Night" commends "a reverend carriage, a slow tongue, and the habit of a sir of note," while in "The Merchant of Venice" we find the advice "Put on a sober habit, talk with respect and swear but now and then" ("The Merchant of Venice," Act II., Sc. 2). Your contributor "Xrayser II.," I am glad to say, commends my criticism of the costume which Mr. Marshall has introduced into the West-end pharmacies. May I remind Mr. Marshall of the immense importance attached to dress by the Sacred Writings? for "Mordecai went out from the presence of the king in royal apparel . . . and with a great crown of gold and a garment of fine linen and purple."

Yours sincerely,
Irish Apothecary (12/2).

## Legal Queries.

*Caithness* (27/1).—The difficulty which you will probably experience in enforcing the agreement will be the interpretation of the expression "business of a chemist." The judge may hold that a drug-store is covered by that term.

*D. F. E.* (7/2) has bought a house in the North of England for 855*l.*, and asks what fee his solicitor is entitled to charge for preparing the conveyance? [The solicitor's scale fee is 13*l.* 10*s.*, and, in addition, "D. F. E." will have to pay the usual disbursements.]

*Magnesia* (14/2).—The British Pharmacopœia tests for the purity of magnesium carbonate allow for slightest traces of iron. What quantity of iron may be present cannot be stated with certainty, in view of the terms of the B.P. monograph. Iron is not a dangerous impurity, and the courts might hold that the presence in more than the slightest quantity is not a ground for refusing delivery of a parcel of the chemical.

*F. J. J.* (12/2).—Poisons Schedule.—Owing to the final clause in Part 2 of the Poisons Schedule of the Poisons and Pharmacy Act, 1908 (see reply to "P. R."), ipecacuanha wine, ipecacuanha lozenges, ipecacuanha vinegar, liquid extract of ipecacuanha, tincture of gelsemium, tincture of henbane, hemlock ointment, and colchicum wine are brought within Part 2 of the Poisons Schedule. Arnica preparations are not scheduled poisons, nor is white lead.

*P. R.* (11/2).—Ipecacuanha wine is brought into the Poisons Schedule of the Poisons and Pharmacy Act, 1908, by the final clause of Part 2, which reads, "All preparations or admixtures which are not included in Part 1 of this schedule, and contain a poison within the meaning of the Pharmacy Acts, . . ." Ipecacuanha wine contains poisonous vegetable alkaloids, which are included in Part 1, and it follows that the wine is a poison within the meaning of the clause in Part 2, quoted above.

*Ning* (14/2).—(1) The Regulations in the Pharmacy Acts referring to the sale by wholesalers of scheduled poisons are that the sale shall be "to retailers in the ordinary course of wholesale dealing," and that the name of the article and the word be placed upon the package. For agricultural poisons sold under Section 2 of the Poisons and Pharmacy Act, 1908, other conditions as regards the packages have to be observed when the articles are sold by licensed persons, and the wholesaler would obviously supply the poisons in proper condition for retailing. (2) The requirement of the amended Poisons Schedule in regard to the proportion of morphine in opium preparations (*e.g.*, tinct. opii) is that if they contain 0.2 or more per cent. of morphine (*i.e.*, one in 500), the article is a poison within the terms of Part I. of the Schedule. The percentage system refers to the volume of the preparation sold in the package. (3) There is no equivalent narcotic preparation to opium and its preparations. (4) The title "wholesale druggist" can be used by *bona-fide* wholesalers, who need not necessarily be registered chemists, without infringing the Pharmacy Acts.

## Miscellaneous Inquiries.

**When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.**

*M. S. L.* (14/2).—Malt and Oil is mixed by means of mechanical stirrers. The malt extract should be warm and freshly made, and the stirring should not be violent or air will be incorporated with the mixture.

*C. C.* (7/2).—Prescription Pricing.—The retail price of the two pepsin mixtures is, according to the London Simplified System, (1) 2*s.* 2*d.*, (2) 2*s.* 11*d.*

*R. B. C.* (7/2).—Non-alcoholic White Rose Essenc —The perfume ingredients are:

| | | |
|---|---|---|
| Oil of rose-geranium | ... | ♏x. |
| Otto of rose ... ... | ... | ♏xxv. |
| Otto of jasmine | ... | ♏xv. |
| Otto of orris ... ... | ... | ♏v. |
| Solvent | ... | ℥vj. |

The solvents employed as substitutes for alcohol a as follows: Benzyl benzoate, ethyl citrate, oleic este glycerin ester, and acetone. The inflammability of t last-named is diminished by adding a proportion of wate which, however, renders it less useful as a solvent of t essential oils.

*Ph.C.* (7/2).—Emulsion of Petroleum.—The bulk the dose required of emulsion of petroleum prepared the usual way with acacia and tragacanth precludes t use of this form as an aperient. Better success is obtain by mixing equal parts of malt extract and tasteless liqu paraffin, the flavour being improved, if necessary, by t addition of a few drops of cinnamon oil.

*M. F.* (16/2).—The conditions as to commission turnover which managers receive vary. With a tur over of 5,000*l.* the wages bill could amount to abo 625*l.* You do not give particulars of the staff employe but we regard the combined salary and commission y mention as somewhat low in relation to the turnove The commission could be 1½ to 2 per cent.

*J. C. M.* (16/2).—The retail price of the hair-wash y send, according to the London Simplified Costing Syste is 15*s.*, this including a dispensing-fee of 9*d.*, and 4 for the container. We presume the quantity of casto oil you give is correct, as we recently (*C. & D.*, I November 13, p. 1582) priced this with an eighth t quantity of castor oil.

*E. S.* (Karachi) (3/2).—Pile Ointment.—The followi is the formula to which you refer:

| | | |
|---|---|---|
| Bismuth oxyiodogall. | ... | lb. j. |
| Zinci oxid. ... ... | .. | lb. j. |
| Resorcin ... ... | ... | ℥iij. |
| Paraff. moll. ... | ... | lb. x. |

Misce.

*J. R. M. M.* (Bombay) (4/2).—(1) We are not a quainted with any work dealing with the manufacture synthetic perfume oils. (2) We cannot undertake prescribe for the case of baldness to which you refe There are many recipes for this affection in "Pharm ceutical Formulas."

*Don Student* (18/2).—You cannot obtain a degree pharmacy in a British University without having pass the Qualifying examination of the Pharmaceutical Socie of Great Britain. One of the requirements of the las mentioned examination is a course of study equivalent an apprenticeship. The question of the relative meri of the B.Sc. and B.Sc. (Commerce) depends upon wh profession the student has in view.

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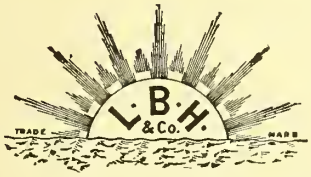


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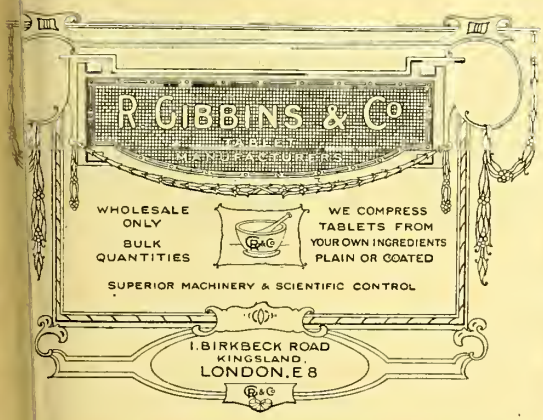


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Does not create a habit and does not give rise to headaches, nausea, vertigo or syncope. *Literature on demand.*
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# "HOMŒOPATHY"

## *An open letter of great interest to all Chemists, both at Home and Abroad.*

Dear Sir,

The "Science of Homœopathy" progresses apace, and so, concurrently, does the demand for our "Homœopathic Medicines." The questions of demand and supply very naturally arrest your interest, and we trust that by bringing to your notice a few of our leading and best selling lines—as enumerated below—together with the terms and prices of them, we may assist you in keeping well abreast of all that is necessary to satisfy the interest which is being taken in the subject by the general public.

Special stress is laid on the fact that we are pleased to execute by return any orders, no matter how large or small, and that those amounting to 10/- net and upwards will be sent carriage free.

Now is the most favourable time to overhaul stock, as the season when these goods are in greatest demand is just upon us, and you will wish to be prepared to meet those demands.

We would most forcibly impress upon you the advisability of always having a few "Laurie's Family Guides" in stock. They retail at 2/6 each, and by reference to them you can most readily give your client most useful advice respecting "Homœopathic Medicines," and very often make the double sale of book and medicines. The "Guides" are 22/- per doz., and you can have any quantity.

**1/- Pilules and Tinctures** **4/6 per doz., less 10 %.**
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***Proprietary Articles such as Neuraline, Glykaline, P.M.Q. Anti-Rheumaticus.***

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***Opodeldocs (Arnica Rhus., etc.)***

**1/3 Size 11/3 per doz. net.** **2/9 Size 24/- per doz net.**
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Tinctures, Pilules, Tablets, and Triturations of all strengths in bulk for dispensing, are supplied on the most favourable terms.

Your kind orders shall receive our best attention.

Yours faithfully,

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HOMŒOPATHIC CHEMISTS,

**295 High Rd., Brondesbury, London, N.W.6.**

# "Milk of Magnesia"

(Registered Trade Mark)

P.A.T.A.

1/3 size - - - 11/- per dozen.
2/6 ,, - - - 22/- ,,

Special Terms for 3, 6 or 12 dozen lots.

# "Phospho-Muriate of Quinine"

3/- size - - - 27/- per dozen.
5/- ,, - - - 48/- ,,

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Phone: GERRARD 275.

Telegrams: "MILKOMAG LONDON."


## P.A.T.A. NOTICE.

**113 Temple Chambers, Temple Avenue, E.C. 4.**

*26th February, 1921.*

"Allenburys" Milk Cocoa.

The revised M.W.P. namely 24/- and 45/7, published in P.A.T.A. Notice last week, came into force on February 18 not February 8 as stated therein. The revised prices to the public come into force March 4.

The following revised prices are now in force:

| Advertised Price. | | Minimum Retail Price. | Minimum Wholesale Price. |
|---|---|---|---|
| | Browning, Wm., Co.'s, Ltd., Preparations— | | |
| 2/6 | Semprolia Toilet Paraffin ... | 2/6 | 20/- doz. |
| 1/3 | Calvert's Carbolic Ointment... | 1/3 | 11/3 ,, |
| | (Revised M.W.P. comes into force March 1, 1921.) | | |
| | "Torch" Brand Products— | | |
| 10½d. | Health Saline ... ... | 10½d. | 6/9 ,, |
| 2/- | Liver ,, ... ... | 2/- | 15/- ,, |


## *A NEW YEAR OFFER.*

Showing a profit of 24/- on an outlay of 31/6 on a line in **hourly** demand in almost any Pharmacy.

**G.O. Lemon-Flavoured Sweetened**

# SEIDLITZ POWDERS

**Retail 3d. P.A.T.A.**

Send us your slip label and a cheque for 31/6, we will send you 1½ gross (plus 6 to cover cost of remitting) in smart envelope with *your* name and address, in show boxes with showcards and window slips. A reasonable display will quickly prove to you their *rapid sales* qualities.

Many Chemists are selling ½ to 1 gross weekly.

Send your order *NOW*. Despatch 3 to 5 days; no cheques banked till delivery.

***Special quotations to large buyers.***

**The GREENWICH LEMONADE Co.**
**(J. Milner, M.P.S., Proprietor),**
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# for NEURALGIA

When a customer asks for 'something for Neuralgia' or Headache, why not recommend DAISY and so make sure that she will be quickly, safely, and surely relieved ?

Your customers know all about DAISY and trust it completely—they have read the medical testimony and know that its formula has high medical approval. A mere reminder about Daisy will make the sale for you at once without effort,

## AND EARN 50%—100% PROFIT

If your own information about the present-day Daisy is not very complete, why not find out about it ? If you will kindly write us, we will gladly send you a sample, so that you may put it to any practical or therapeutic test you desire.

Here is medical testimony to the value and safety of Daisy which we have published throughout the country for over two years.

## Dr. ROBERTSON WALLACE *writes :—*

Dr. Robertson Wallace, M.B., C.M. 64 Haymarket, Piccadilly Circus, W.

*November 12th*, 1918.

Dear Sirs,—For many years I have watched the introduction of headache specifics and subjected them to both analytical and clinical tests, but have never felt inclined to approve of their composition or effects. I must admit, however, that your new formula for the "Daisy" Headache Cure merits my complete approval, and I am especially pleased to note that you have replaced the depressing ingredient, acetanilid, by an infinitely safer and more certain principle, free from any possibility of causing injury to the system. I lay great stress both on its efficiency and safety, and am constrained to compliment you on your commercial courage in placing an unusually costly formula, at a reasonable charge, at the command of the public.

Yours faithfully, (Signed) ROBERTSON WALLACE.

## TERMS :

1/- Packets each containing 8 powders—Minimum Retail Price, 1/- ; Sample Powder 2d.
For not less than 1 doz. Boxes, **9/9** per doz. For not less than 3 doz. Boxes, **9/2** per doz.
2/3 Packets each containing 20 powders—Minimum Retail Price, 2/3.
For not less than 1 doz. Boxes, **21/6** per doz. For not less than 3 doz. Boxes, **20/6** per doz.
Mixed Orders for 1/-, 2/3, 6/- size and for Daisy Tablets on best terms.
Discount 7½ per cent. for cash. *Carriage Paid to destination.* From all Wholesalers or direct.

# DAISY, LTD. MANUFACTURING —CHEMISTS— LEEDS.

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*Manufacturing Chemists,*
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PRICE LIST

**GALLOWAY'S COUGH SYRUP**

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| 2/6 size | ... | 24/- doz. |
| 1/3 ,, | ... | 12/- ,, |

10% for £5 order

**FAMILY LUNG SYRUP**

| | | |
|---|---|---|
| 4d. size | ... | 24/- gross |
| 8½ ,, | ... | 6/6 doz. |
| 1/4 ,, | ... | 12/- ,, |
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5% for £5 order.

AN EXTRA 10% given for Window Display on £5 orders, and 2% C.O.D., which orders may be mixed.

**J. FLEMONS & SONS**
Wholesale Herb Merchants,
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*Special lines:* English Herbs, Roots and Flowers, fresh and dried.

LEAVES & HERBS.
Digitalis, Belladonna, Broom Tops, Dandelion Tops, Coltsfoot, Mugwort, Ragwort, Wild Carrot, Meadowsweet, etc

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Belladonna, Burdock, Bryony White and Black, Comfrey, Dandelion, Male Fern, Doggrass, etc.

*Full List on Application.*

For Status Inquiries, Collection of Accounts, and Investigations, Business Transfers, Stocktaking and Valuations,

***Join The Association of Manufacturing Chemists,*** Ltd.

which is THE MEDIUM for the TRADE.
PROSPECTUS ON APPLICATION.

**PARKIN S. BOOTH,**
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*Telephone: City 6942.*
*Or 35, 36 & 37 EXCHANGE CHAMBERS,*
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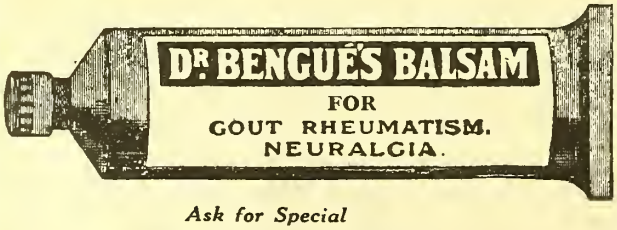


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*Large selection of tubes.*

**Anestile** for Local Anaesthesia.
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Tell your customers that for bruises, pains, sprains, lumbago, rheumatism, etc., Miller's Musterole is known to bring quick relief. It is also very effective for breaking up coughs, colds or congestion. A smooth ointment in a handy white jar—as potent as a mustard plaster, but without the mess or blister—recommended by physicians and nurses.

Consistent advertising in important newspapers and magazines throughout the United Kingdom has built a constantly increasing demand for Musterole. Profit with us ; order a stock to-day. Prices and information sent upon request.

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MUSTEROLE

WILL NOT BLISTER

THE PROFIT on

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*THE GREAT TONIC*

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Full particulars from the SOLE MAKERS,

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*(ROBERTS)*

Recognised by the Medical Profession as

**THE BEST TONIC.**

Supplied in 8-oz. and 16-oz. Bottles by all the Wholesale Houses.

*Inquiries Invited for*

***NEW & RARE MEDICINES***

*of French, Italian and Russian Origin.*

**ROBERTS & CO.,**

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*Of Sixty Years' Proven Efficacy.*

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*A combination which often proves successful when synthetics fail.*

**KAY'S** MOUNTAIN FLAX 'LINUM CATHARTICUM' **PILLS**

*Users like their gentle action.*

**KAY'S THROAT LOZENGES**

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*Skilfully compounded to a valuable formula.*

**KAY BROTHERS Ltd.**

***Manufacturing Chemists***

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All Reactions of the Body Fluids and Tissues are Colloidal.

*Collosols are pure and stable colloidal solutions, isotonic and isomorphic with the elements of the body.*

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*Collosols are tested by ultra-microscopic, bacteriological, and clinical experiment.*

*The Modern Scientific Method of Administering well-known Drugs.*

# COLLOSOL ZINC CREAM

**(Cremor Collosol Zinc 10%.)**

NON-GREASY AND NON-IRRITANT.

From ancient times Zinc (as oxide or carbonate) in the form of ointments and lotions has been employed by the medical profession as an application for the skin on account of its healing and soothing effect.

In zinc ointment, the penetrative power of the zinc is largely due to the lard in which it is mixed. Where grease is an objection and a superficial action is desired, a suspension of the zinc in water or glycerine and water is usually prescribed.

**Cremor Collosol Zinc** combines the advantages of both the above. Being in the colloidal state, the zinc, on account of the infinite subdivision of the particles, has considerable penetrative power, particularly if the cream be applied and then well rubbed in.

**Supplied in 2 oz. Pots.**

# COLLOSOL SULPHUR BATHS

To prepare a Sulphur Bath one bottle of the concentrated sulphur should be emptied into an ordinary bath of about 20 gallons of hot water. The bath is not only of great service in the treatment of skin affections, gout, and rheumatism, but also induces a healthy condition of the skin.

Collosol Sulphur Baths are inoffensive, contain no impurities, and do not injure the bath, but care should be taken to keep the bath quite clean.

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*Collosol Sulphur is also supplied for internal administration.*

# COLLOSOL FERROMALT

A combination of Pure Malt Extract with Colloidal Iron, rich in protein, diastase and vitamines—the essentials for perfect carbohydrate metabolism. In this colloidal suspension Iron does not cause constipation or digestive troubles.

COLLOSOL FERROMALT with HYPOPHOSPHITES.
COLLOSOL FERROMALT with GLYCEROPHOSPHATES.

**Supplied in 8 oz. and 16 oz Bottles.**

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*Telephones: MUSEUM 3663 and 3697.*

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**FIG, SENNA and SULPHUR TABLETS**

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(COMPRESSED)

Two and four ounce Cartons (original designs) with attractive Showcards supplied free.

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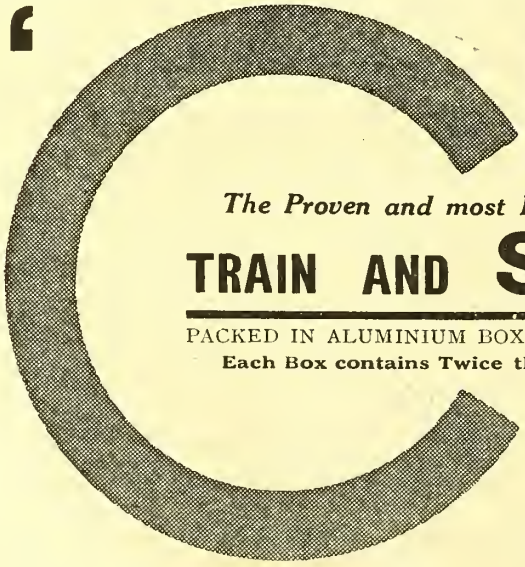

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*The Proven and most Reliable Preventive and Cure for*

**TRAIN AND SEA SICKNESSES**

PACKED IN ALUMINIUM BOXES ENCLOSED IN DECORATED CARTONS
**Each Box contains Twice the value of any other similar Remedy.**

Large Size - **8/-** - per Box.
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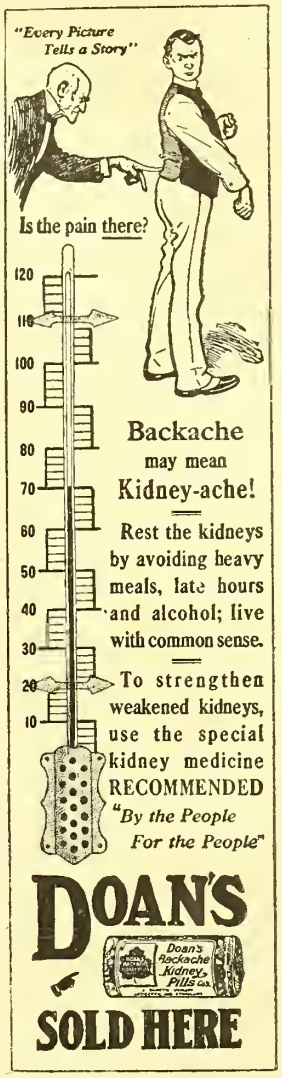
**A Doan's Thermometer displayed outside your premises arrests attention and helps your sales.**

The Thermometer is set in ¾-inch thickness of white-enamelled wood, 21 inches long and 5 inches wide. For inside display Doan's Pictorial Showcard, size 16½ inches long by 5¾ inches deep, is suitable. It interests the waiting customer and increases your sales without taking up your time.

**Sent Gratis to Dealers on request.**



**DOAN'S BACKACHE KIDNEY PILLS**

*"Every Picture tells a Story."*

Recommended by your neighbour

Over 40,000 testimonials.

**SOLD = 3/- per box = HERE**

Doan's Pills, at P.A.T.A. prices, yield **38** % on cost. Purchased in six-dozen lots, there is a gross profit of **£3 : 0 : 0** to the Retailer.

**Trading Guarantee.** We undertake to exchange, or refund in full for, unsold or damaged stock returned to us.

**FOSTER-McCLELLAN CO.** Manufacturing Chemists,

**8 Wells Street, Oxford St., LONDON, W.1.**

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REGD. TRADE MARK

*The British Medical Journal.*

"Clinical experience enables us to recommend Maltine as a digestive agent . . . ."

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"Maltine exhibits in an eminent degree the starch-dissolving power of diastase . . . ."

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"Maltine combines the nutritious principles of malted barley, wheat and oats; the wheat and oats being especially rich in fat and muscle-producing elements."

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"Maltine is a digestant of great value."

*Dr. Stevenson Macadam, F.I.C., F.C.S., F.R.S.*

"Maltine materially exceeds in power and efficiency any of the other forms of extract of malt which I have analysed and deserves the highest place among such preparations."

MALTINE HAS BEEN REGULARLY PRESCRIBED FOR OVER 40 YEARS.

# Maltine

REGD. TRADE MARK

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| | Small Size s. d. | Large Size s. d. | Hospital Size s. d. |
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| MALTINE plain ... ... ... ... ... ... ... ... | 2 9 | 4 6 | 20 0 |
| ,, ★in powder form ... ... ... ... ... ... ... | 2 6 | 4 6 | 20 0 |
| ,, with Cod Liver Oil 30 % ... ... ... ... ... | 2 9 | 4 6 | 20 0 |
| ,, ★with Cod Liver Oil and Hypophosphites ... ... ... | 3 0 | 5 6 | 25 0 |
| ,, with Cascara Sagrada ... ... ... ... ... ... | 3 0 | 5 6 | 25 0 |
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| ,, with Easton Syrup (Iron, Quin. and Strych.) ... ... | 3 0 | 5 6 | 25 0 |
| ,, with Hypophosphites ... ... ... ... ... ... | 3 0 | 5 6 | 25 0 |
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| "MALTO-YERBINE" for bronchial troubles ... ... ... ... | 3 0 | 5 6 | 25 0 |

★New Specialities to be ready shortly.

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TWO SIZES ONLY.

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|---|---|---|
| Minimum Retail Price .... .... | 1/3 | 3/- |
| Price (*per dozen*) .... .... .... | 12/3 | 30/6 |

Discount 5 per cent. on £1 worth, 7½ per cent. on £5 worth and upwards.

Packages charged at cost, and are not returnable. Carriage forward.

Terms: Cash with order. Most Wholesale Houses supply on equal terms, so please order with your other goods.

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White and Yellow Tasteless and Odourless.
Natural Filtered and Opaque.

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***Actual Refiners and Manufacturers at their Works near London.***

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GUARANTEED GENUINE.

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LARGEST MANUFACTURERS OF COD LIVER OIL IN NORWAY.

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# MALT & COD LIVER OIL

Prepared only from the Finest East-Coast Barley, combined with the best Norwegian Non-Freezing Cod Liver Oil.

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FINEST NEW-SEASON'S NORWEGIAN.

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THE BEST AND SAFEST INFANTS' MEDICINE OF OVER 120 YEARS' STANDING.

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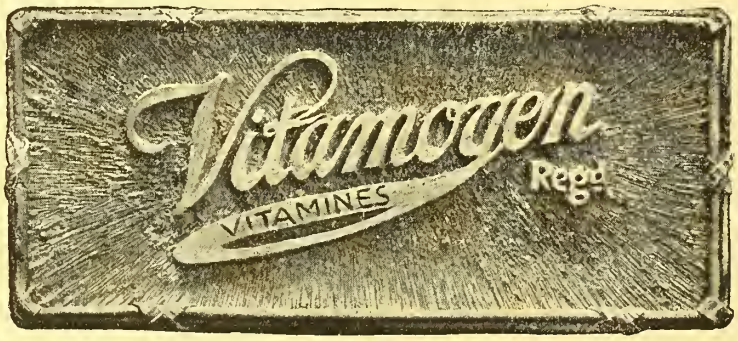
**DOES NOT CONTAIN any SCHEDULED POISON.**




VITAMOGEN contains the essential *Vitamines* in an active and concentrated form. VITAMOGEN is in itself a food of the highest potency, rationally concentrated according to approved scientific methods. It is rich in organic, i.e. assimilable Phosphorus, and the proportion of nutritive constituents is well balanced to meet the physiological needs of the organism.
VITAMOGEN stands alone as a means of supplying the Vitamines—an entirely new food element.
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Vitamogen LTD.

## LIQ. SANTAL FLAV. c. BUCHU et CUBEBA

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Packed for dispensing only, in 10, 22, 40 & 90 oz. bottles.

"Experience has shown this preparation to possess the same efficacy as Santal Oil itself. It mixes clear with water, and has a taste by no means disagreeable."
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**Of proved utility in Nervous Diseases, and a powerful Restorative for the Digestive Organs and Nervous System.**

**A Valuable Tonic Food for Children.**

"It is of high nutritive valne enhanced by the presence of assimilable phosphates."—*The Lancet.*

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|---|---|---|---|
| No. 1. | 1½ oz. Tin ... | 9/- | per doz. |
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| " 3. | 6½ " " ... | 24/- | " |
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Packed for dispensing only, in 10, 22, 40 and 90 oz. bottles.

"Obviously likely to be of mnch advantage in the frequent cases of irritative dyspepsia, with atony of gastric or intestinal muscular layers."
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Introduced and Prepared only by C. J. HEWLETT & SON, Ltd., Wholesale Druggists, 35–42 Charlotte St., London, E.C. 2.

# YOUR OWN PROPRIETARY LINE! READY TO SELL!!

THIS attractive two-colour label, with own name imprinted and showcards to match, is reserved to one Chemist only in each locality.

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*We pack in cartons, composite containers and tin canisters (plain or with own labels affixed free), and in BULK for own packing.*

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# REDUCTION IN PRICE.

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The Great British Aperient Water

Trade Terms, Now ... ... 22/- per dozen bottles, Carriage Paid

Retail Price, Now ... ... 2/6 per bottle (P.A.T.A.)

**OSMOS, Crown Wharf, Hayes, Middlesex.**

# Saint-Raphael

Tonic, Restorative, Digestive Wine.

**Known throughout the World, and prescribed in all cases of ANÆMIA, DEBILITY, and CONVALESCENCE, to Young Women, Children and the Aged.**

DOSE: One wine-glass after the two principal meals.

Recommended by—
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"For more than thirty years St. Raphaël Wine has been exclusively prescribed, with success, in the Paris hospitals as a pure tonic, by eminent physicians, such as Magendie Roston Chomel, Velpeau, Requin, Monneret, Trousseau, Grisolle, Laënnec, &c."—*Union Médicale*, May 8 and June 12, 1875.

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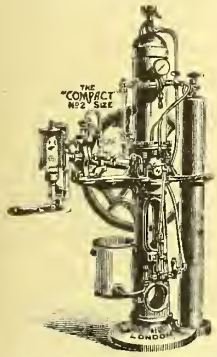
**Cie du VIN SAINT RAPHAEL, Valence, Drome, FRANCE.**

***To be obtained from all Wholesale Druggists.***

# Everything for Bottling.

"COMPACT"
Soda-Water Machines.




For use with liquefied carbonic acid gas. A complete mineral-water plant, comprising a soda-water machine and one or two fillers, on one base. Easy to instal and simple to operate. Outputs up to 1,200 doz. bottles per day.

All Machinery and Appliances for the production of Soda Water and Aerated Beverages.

THE
"RED CLUB"
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Soluble Essences and all Ingredients for Aerated Beverages, &c.

*Ice Making and Refrigerating Machinery.*

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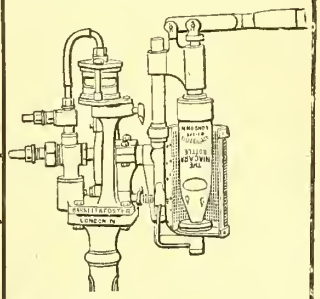
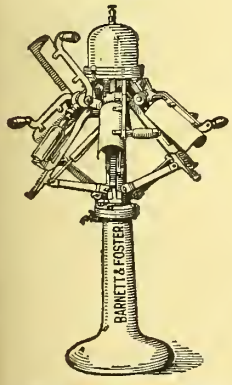


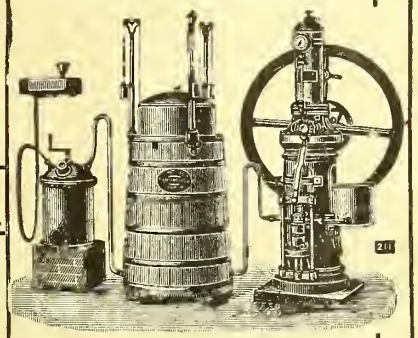
For Codd's, Niagara or other internally stoppered bottles. With this machine a lad can syrup and fill 80 doz. large bottles per hour. It can be supplied fitted with a Back-Pressure attachment, which reduces the consumption of gas by half.

"ROUNDABOUT"
FILLERS.




For all externally stoppered bottles. These machines fill on the Back-Pressure system and save 50% in working costs. Nine sizes: four for hand and five for power.

"NIAGARA"
SODA-WATER MACHINES.



Capacities from 100 to 6,000 doz. of 10-oz. bottles per day. Supplied complete with gas-work and automatic saturating cylinder. The best machine for export.

"NIAGARA" Hand Crowners
with Automatic Feed.

With one of these machines a boy or girl can crown up to 200 doz. per hour. Far less tiring than foot machines therefore faster. Can also be supplied without Automatic Feed.

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Telegrams—"Drinks, Hox, London."
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# ACETIC ACID

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*Made in Canada. Very Highest Quality.*

RATES QUOTED to ANY PORT in the WORLD

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*Distributors of Acid and Paraldehyde in the United Kingdom:*

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# Vinum Xericum

BUTTS. 108 galls. HOGSHEADS. 54 galls. QR. CASKS. 27 galls.

STRENGTH 17°

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The Medical Profession are recommending VITMAR for delicate Children and Invalids.
If you do not yet stock it your wholesaler will supply you.

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**R. J. FULLWOOD & BLAND'S**

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**Dairy Preparations**

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"Oleo" and "Sunbeam" Butter Colour, Essence of Rennet, &c.

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And Rennet Works, Ellesmere, Salop.

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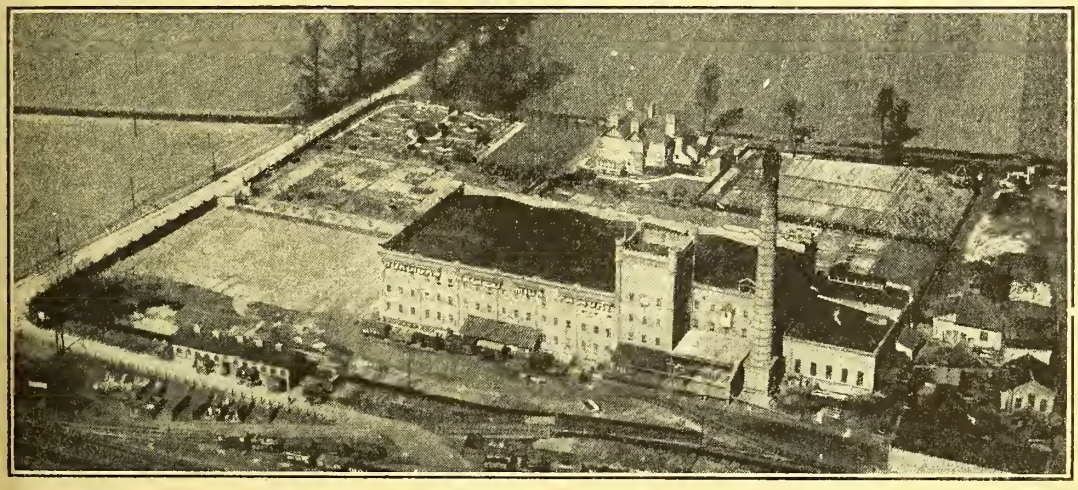

An aerial view of the works at Slough, Buckingham, England, where all the

## HORLICK'S MALTED MILK

Supplied in Great Britain is Produced.

**PRICE PROTECTED - - 2/-, 3/6, 15/-**

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(Sir James Horlick, Bart., President.)

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*India Rubber Manufacturers,*

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BOTTLE TEATS

In Hygienic Germ-proof Packing.
Appreciated by trade and public alike.

*Write at once for Sample and Price to—*

THE LONDON RUBBER CO.

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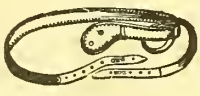
# J. H. HAYWOOD, LTD.

CASTLE GATE, NOTTINGHAM.

INVENTORS OF SEAMLESS ELASTIC HOSIERY.

SURGICAL APPLIANCE MANUFACTURERS.

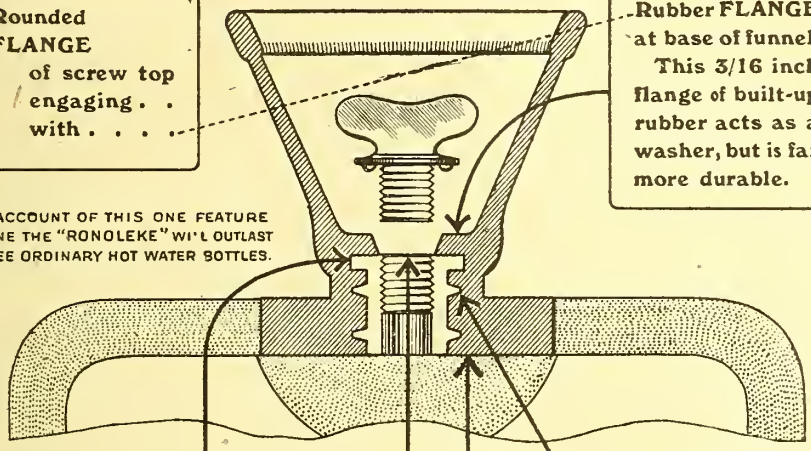


*Specialities:*

Abdominal Belts, Trusses, Suspensory Bandages, Braces, Elastic Web Bandages, and Druggists' Sundries.

WRITE FOR PRICE LIST. ESTABLISHED 1833. TELEGRAMS: "APPLIANCE NOTTINGHAM."

# The reasons why It Never Leaks



Rounded FLANGE of screw top engaging . . with . . . .

Rubber FLANGE at base of funnel. This 3/16 inch flange of built-up rubber acts as a washer, but is far more durable.

ON ACCOUNT OF THIS ONE FEATURE ALONE THE "RONOLEKE" WILL OUTLAST THREE ORDINARY HOT WATER BOTTLES.

Wide METAL FLANGE of socket embedded in built-up rubber.

Projecting LUGS of patent socket embedded in built-up rubber, preventing the socket from revolving when tightening up or removing screw top.

Aperture at base of funnel. This makes the funnel a real funnel. There is no water left after filling.

Built-up RUBBER firmly joined to body of bottle, so that not a particle of water can leak through. It holds socket securely in position without wiring.

"Ronoleke" REGD.

*To be obtained from all wholesale Druggists' Sundriesmen.*

**PRICES.**

| Size | Min. Wholesale Prices to Retailers | Min. Retail Prices to Public |
|---|---|---|
| 6× 8 in. | 5/- | 6/5 each |
| 6×10 ,, | 5/6 | 7/1 ,, |
| 7×10 ,, | 5/9 | 7/4 ,, |
| 6×12 ,, | 5/10 | 7/6 ,, |
| 7×11 ,, | 6/- | 7/9 ,, |
| 8×10 ,, | 6/3 | 8/- ,, |
| 7×12 ,, | 6/6 | 8/4 , |
| 6×14 ,, | 6/6 | 8/4 ,, |
| 8×12 ,, | 7/1 | 9/2 ,, |
| 9×12 ,, | 7/5 | 9/7 ,, |
| 8×14 ,, | 7/8 | 9/11 ,, |
| 10×12 ,, | 7/11 | 10/2 ,, |
| 10×14 ,, | 8/11 | 11/5 ,, |
| 10×16 ,, | 9/9 | 12/7 ,, |
| 12×14 ,, | 9/11 | 12/8 ,, |
| 12×16 ,, | 10/6 | 13/6 ,, |

Prices Protected on P.A.T.A. List.

[3]

# Careful Mothers insist on the NESTLÉ FEEDER

The superiority of the Nestlé Feeding Bottle is so obvious that doctors are advising it, nurses are recommending it and mothers insist on having it. Nothing is good enough for their little ones but a bottle which is perfect in hygienic construction; which cannot possibly harbour dirt or disease germs and which ensures that the food is taken without undue effort or excessive air.

Nestlé's Feeding Bottle is constructed throughout on scientific principles, it is impossible for the child to detach the teat and rubber valve which automatically cling and are made from pure plantation rubber. Colic is prevented because the flow of air behind the milk is systematically regulated. The feeder, made of virgin glass, can be tilted to and will remain at any desired angle. Its capacity is 10-oz., and every part, including the box, is thoroughly sterilized before leaving the factory.

# NESTLÉ Feeding Bottle

*the Cheapest full-sized Feeding Bottle on the Market.*

*Easy to sell; brings good profit and rapid turnover. Write to-day for full details and current trade price list.*

NESTLÉ'S (Advert. Dept.),
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# RIGOLLOT'S MUSTARD LEAVES

FOR PLASTERS.
THE ORIGINAL.
THE **ONLY** GENUINE.

**7d., 1/- & 1/7** Packets
**5/3, 9/-, 14/3** per Doz.

**GUYOT-GUENIN & SON**
**67 Southwark Bridge Road**
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## EXCELSIOR CREPE BANDAGES. FAST EDGE

EXCELSIOR CREPE BANDAGE

Owing to the War, the supply of Crepe Velpea Bandages is discontinued. We, are, therefor placing on the market a bandage of Englis manufacture which will be sold as

GIMBER'S EXCELSIOR CREPE BANDAG

TRADE MARK.

An Elastic Bandage. Co taining no Indiarubbe Superseding Elastic Stocl ings, Webs, Bandages, and at half the cos Three sizes, about 2, 2¾, and 3½ inches wid

**Excelsior Crepe Abdominal Binders.**—Useful aft many Abdominal Operations, and for ladi after confinements. Two sizes: 8 & 11 in. wid

CAUTION.—Beware of fraudulent and useless imitations, and reject a Bandages not bearing the above Trade Mark on the Wrappers.

*Wholesale of*
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And of all Wholesale Druggists, Chemists, Surgical Instrument Makers, &c
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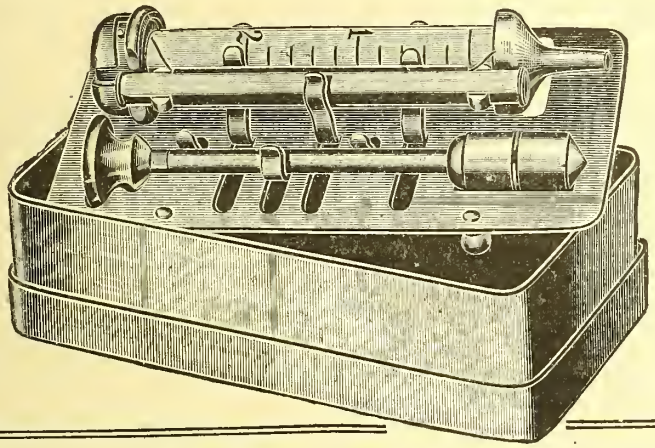

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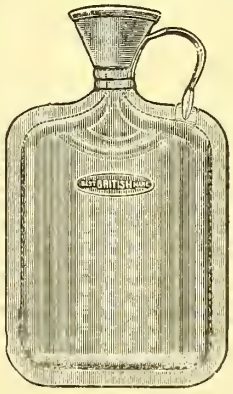

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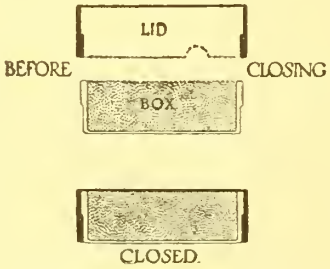


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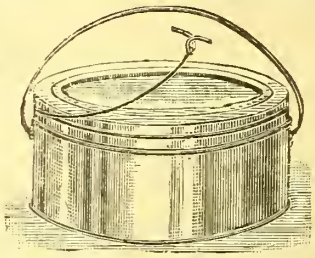

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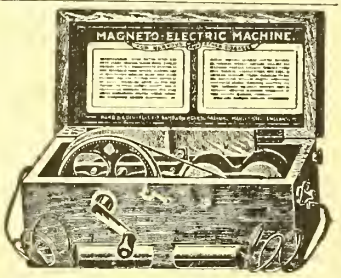


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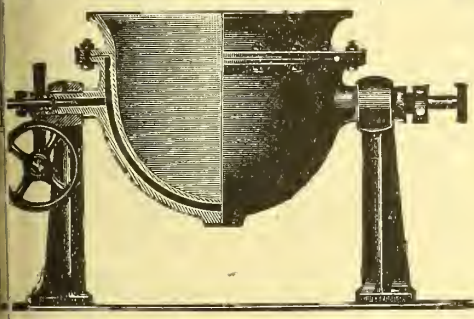

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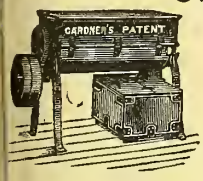


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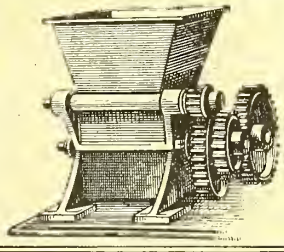

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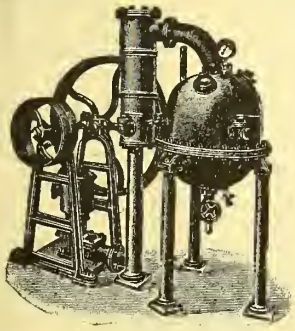

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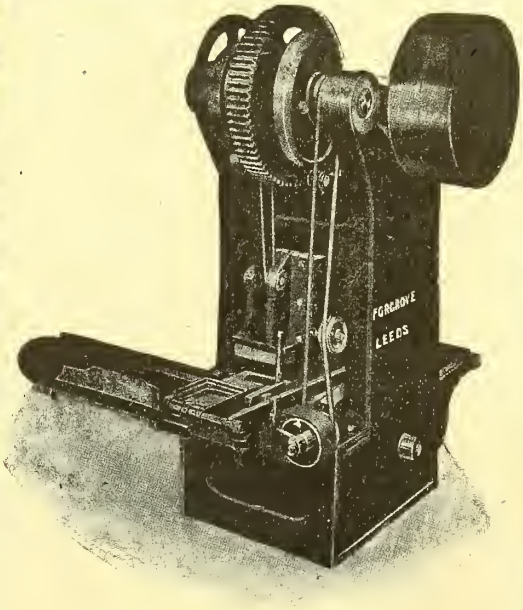


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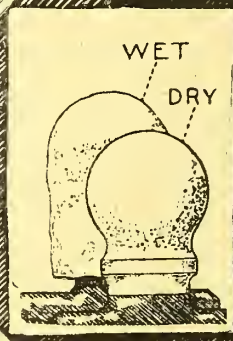


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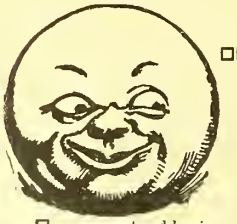

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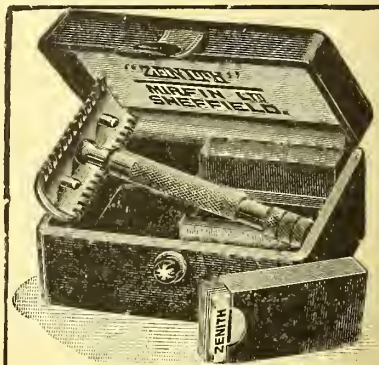


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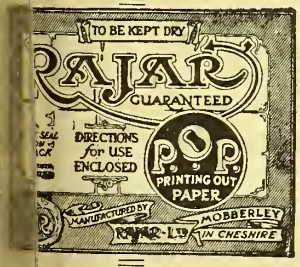

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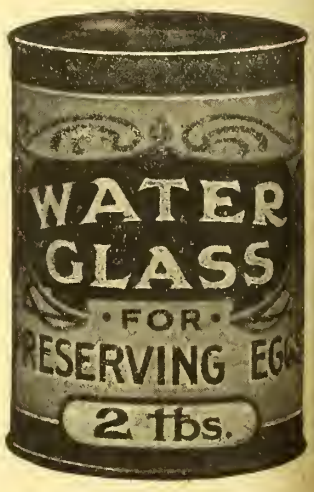

# THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST. LONDON E.C.4

FEBRUARY 26, 1921

*This Supplement is inserted in every copy of The Chemist & Druggist.*


## THE SUPPLY OF SUPPLEMENTS.

The clerical work in connection with the posting of spare copies of the coloured Supplement week by week has increased to such an extent that we have been compelled to reorganise our system of distribution. Our readers will please note, therefore, that, in future, instructions can be accepted for not more than six successive issues of the Supplement at a time, and that in every case

**ADDRESSED WRAPPERS STAMPED ONE PENNY**

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## EARLIER CLOSING FOR PRESS.

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SERVICE man, Captain and Quartermaster, desires situation as Dispenser; 45, married; 16 years' experience; 26 years' service. Apply M.L. 100347, Office of this Paper.

LADY management required, where personality, combined with thorough up-to-date general high-class experience is essential; qualifications and references; turnover trebled from 1921. Lancashire, Yorkshire, or Derbyshire preferred. Apply Office of this Paper.

Assistant; unqualified; 21; Dispensing, Counter, Photography, Window-dressing; five years' exceptional experience, good address, trustworthy, abstainer. F. Quiney, Forth Road, Forest Hill, S.E. 23.

Assistant seeks a situation; good Dispensing and Counter; knowledge also Photography; age 20 years. Apply Office of this Paper.

(21), London and provincial experience, as Dispenser preferred, until September; Photography; excellent references. Hudson, 13 Ampthill Square, London, N.W.

Counter, Stock, N.H.I. Dispensing, requires permanency, town or country. Chemist, 39 Dulwich Road, Herne Hill, S.E.

Unqualified; 21; 3½ years' experience; moderate salary; Dispensing, knowledge of Photographic trade; active, energetic. "Tylaglas," Resolven, near Neath.

Assistant (30); 10 years' excellent experience and references; good Saleswoman; N.H.I. Dispensing, but Counter etc., preferred; Walthamstow or near; £2 weekly. 5 Lloyd Road, Walthamstow, E. 17.

Dispenser, qualified, eight years' experience, desires position; temporary or permanent; good testimonials. Apply Office of this Paper.

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Dispenser (Hall); four years' experience Chemist, Doctor, Hospital: excellent testimonials; disengaged. "P.," 6 5.

Dispenser-Bookkeeper, qualified, wishes post with Doctor; salary, light duties; six years' experience; would to Doctor. "Statim" (26/17), Office of this Paper.

(Minor), 12 years' first-class experience in Dispensing, Photography, etc., excellent references, desires position; large or otherwise; South England or Wales preferred; not essential. "Statim" (22/18), Office of this

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Now disengaged; elderly, very active; qualified; fully experienced town and country; well recommended; moderate; good Salesman. Apply 26/10, Office

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QUALIFIED (25) desires situation; Dispensing and Counter; good testimonials; state salary. A. West, 98 Bewsey Road, Warrington.

QUALIFIED; Manager, Branch, Locum; thoroughly experienced; best London, country businesses; reliable; satisfactory references. "Idem," 51a Bedford Road, Clapham, S.W.

QUALIFIED; now at liberty; any capacity; good references; 33; £4 5s.; energetic. "Statim" (25/39), Office of this Paper.

QUALIFIED Manager (38); best experience; succession entertained if small suburban business. "Derbyite" (25/10), Office of this Paper.

QUALIFIED, competent Manager, Branch, Locum; middle-age; thoroughly experienced and reliable; disengaged. "Aloin" (24/35), Office of this Paper.

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